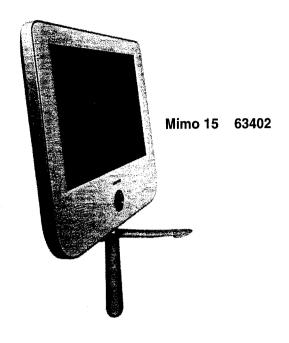
### Serviceanleitung.

Service Manual. Manuel de Service. Manuale di Servizio. Instrucciones de servicio. Service-instructies.

L 3010 230-90422.994

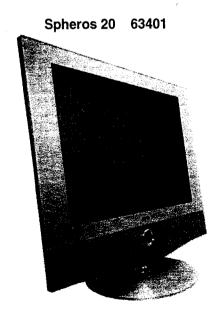


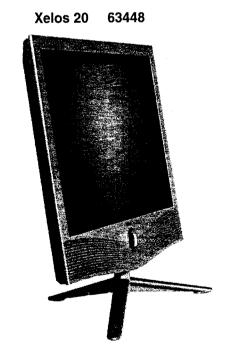
Mimo 15 Art.-N° 63402.x23 Art.-N° 63402.x60

Mimo 20 Art.-N° 63406.x23 Art.-N° 63406.x60

Spheros 20 Art.-N° 63401.x23 Art.-N° 63401.x60

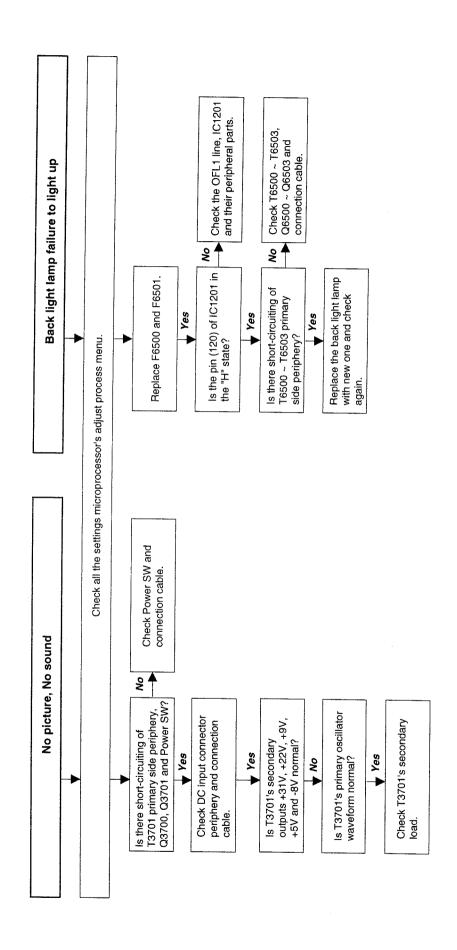
Xelos 20 Art.-N° 63448.x23 Art.-N° 63448.x60 Art.-N° 63448.x70



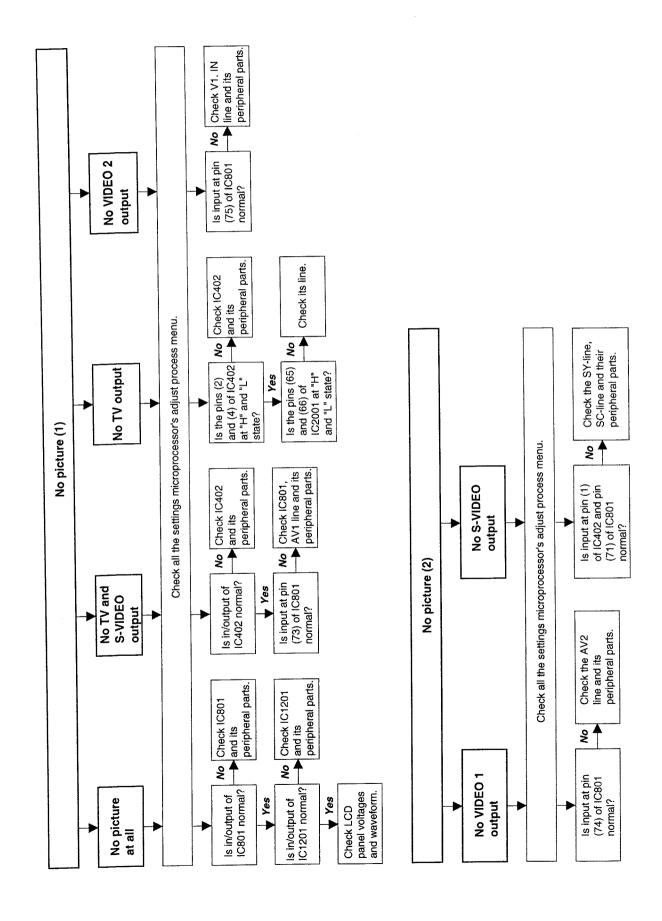


# LOEWE.

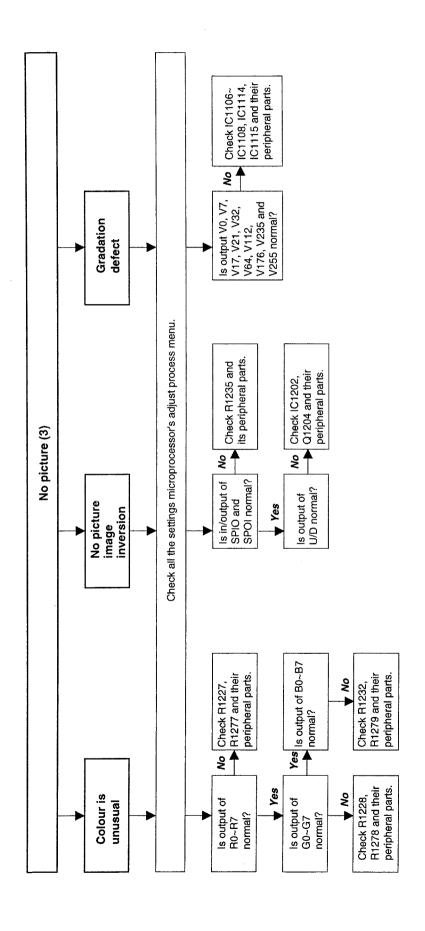
## TROUBLE SHOOTING TABLE



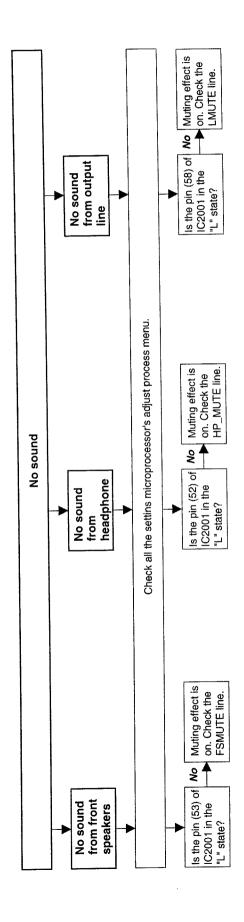
### TROUBLE SHOOTING TABLE (Continued)



## **TROUBLE SHOOTING TABLE (Continued)**

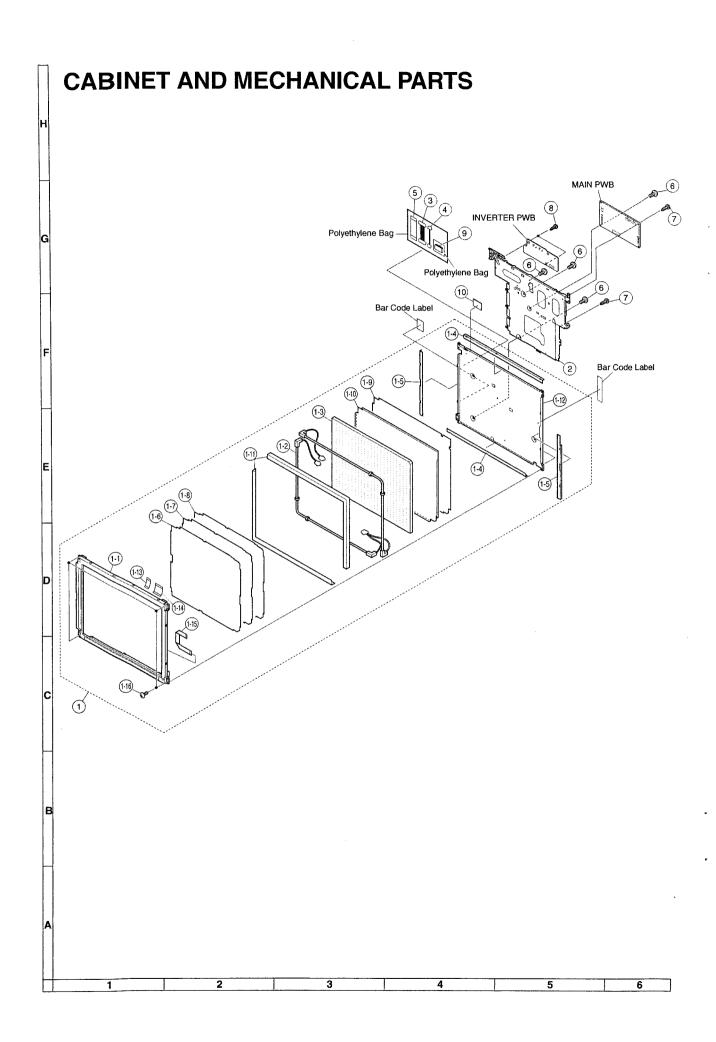


# TROUBLE SHOOTING TABLE (Continued)

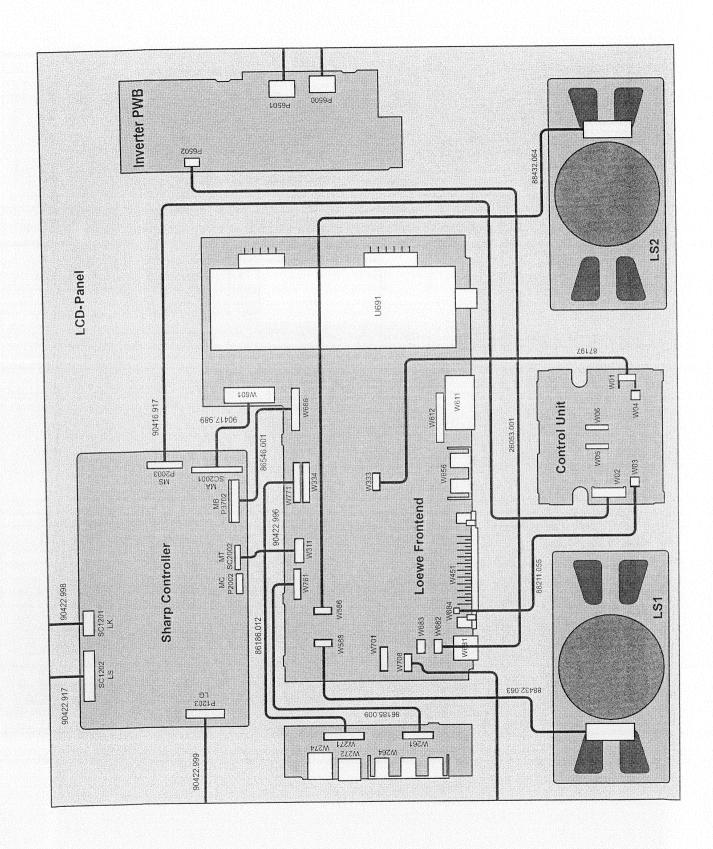


## **CHASSIS LAYOUT** MAIN PWB SC2002 P2002 1 C402 P3702 103702 ПС5002 105002 IC2001 [] [C751 IC801 102006 102002 IC2007 IC752 IC1116 IC1109 C1116 IC1101 IC1102 IC1111 C1101 IC1102 101201 IC1112 IC1113 SC1201 SC1202 **INVERTER PWB** P6500 P6501 T6503 T6500 T6501 T6502 P6502 F6501 В 6

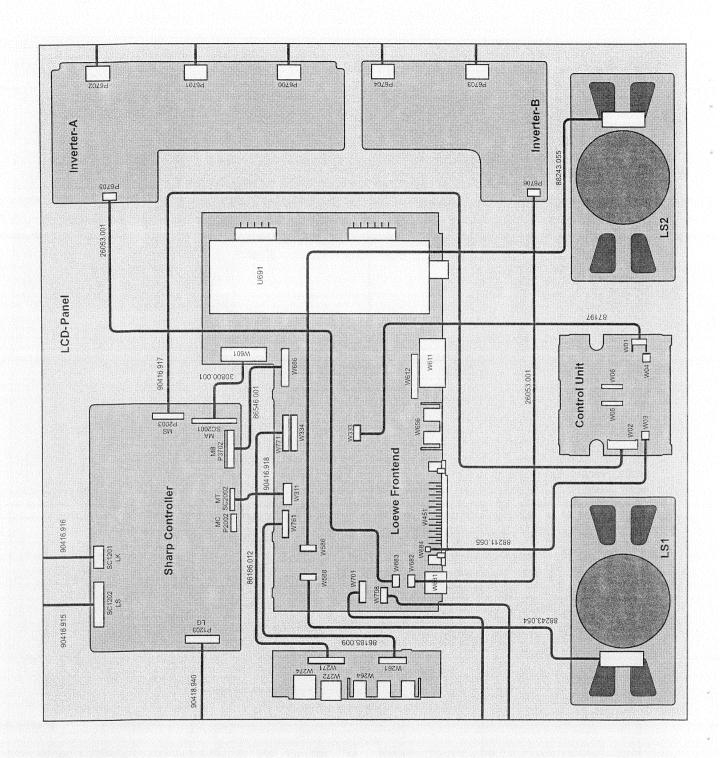
# **CHASSIS LAYOUT INVERTER-A PWB** LP6700 LP6701 [P6702] T6704 T6700 T6703 T6701 T6702 T6705 P6705 **INVERTER-B PWB** T6709 T6707 T6708 T6706 [P6704] [P6703]

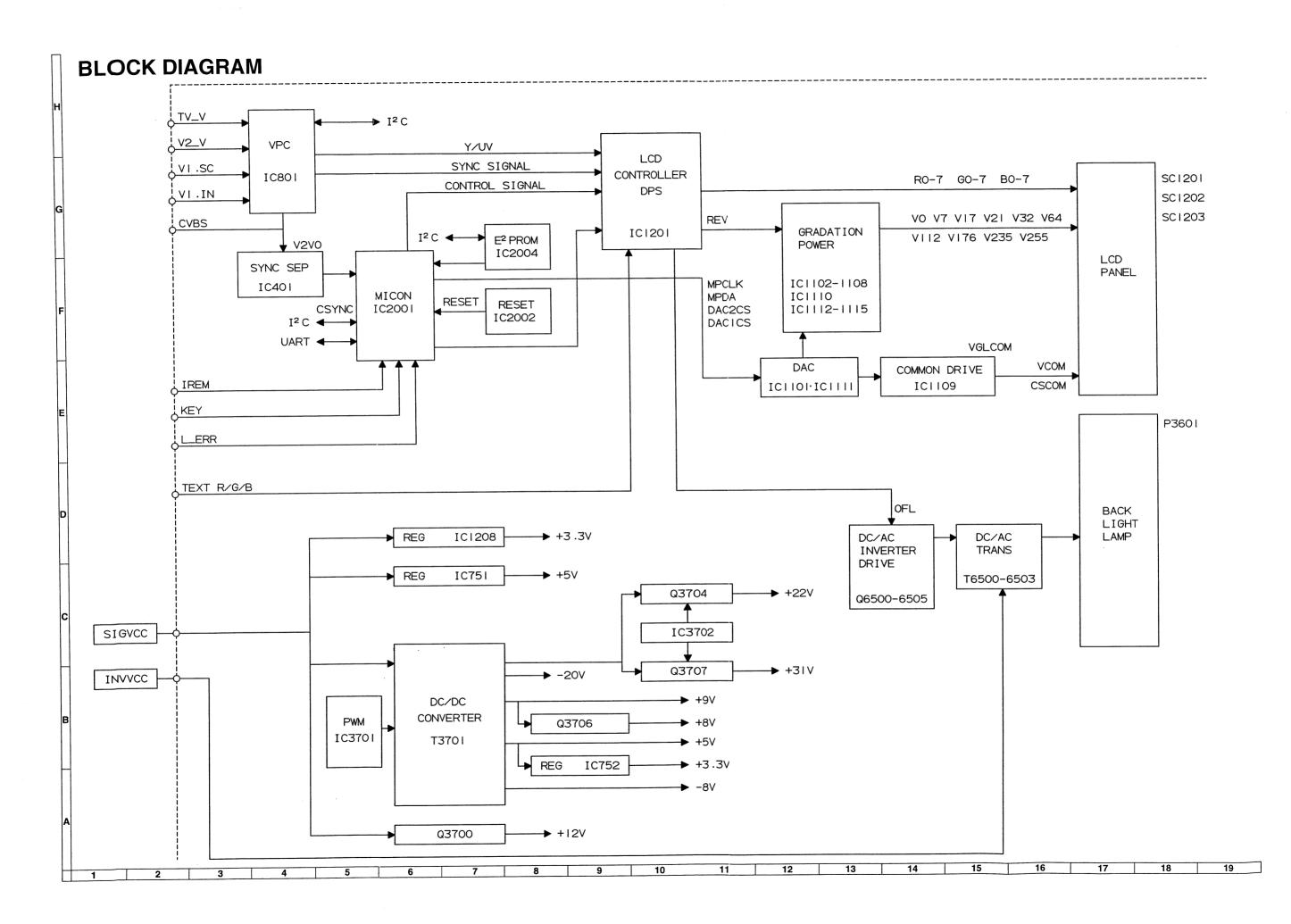


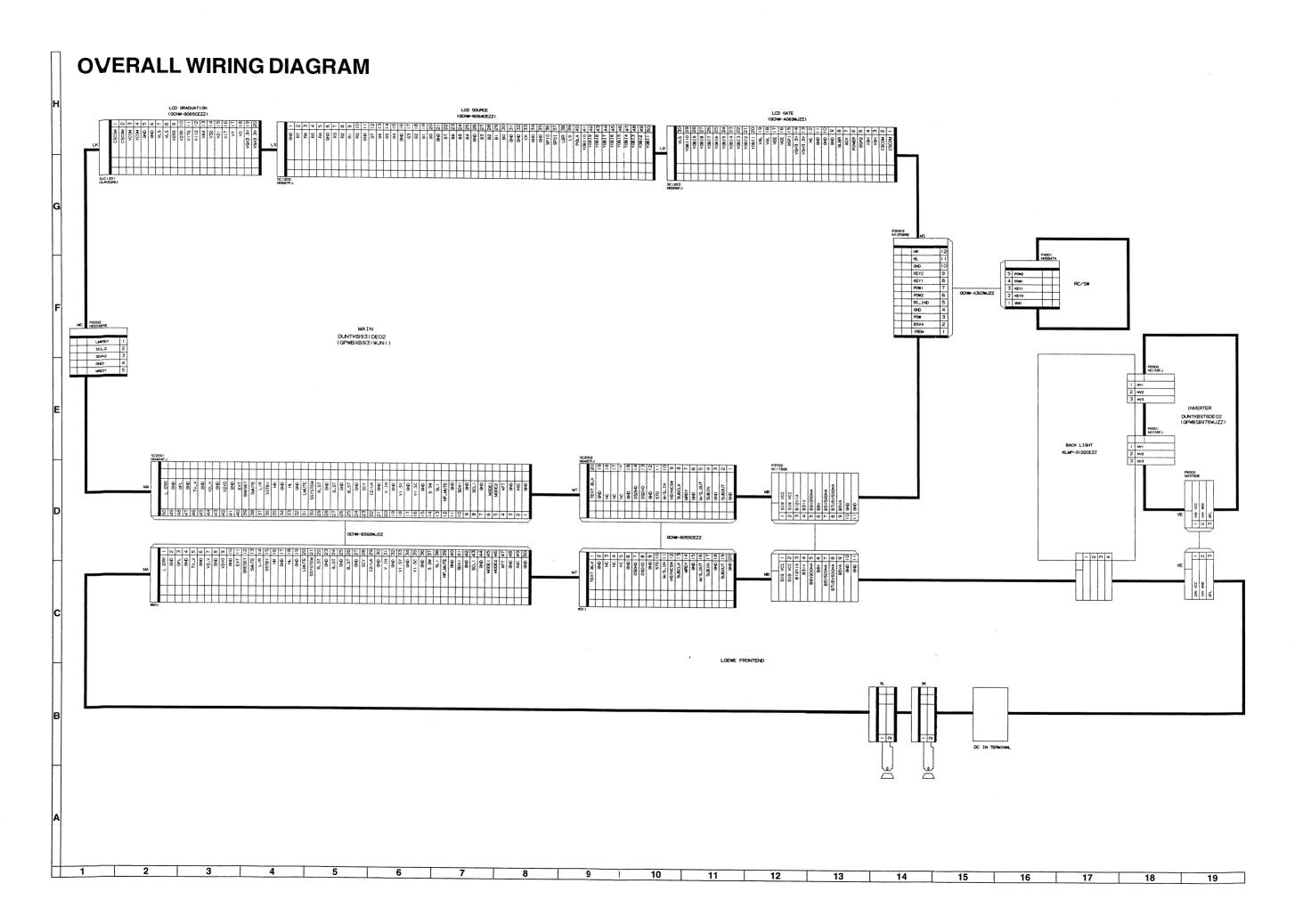
## Connection and Cables 15" Kit Spezification

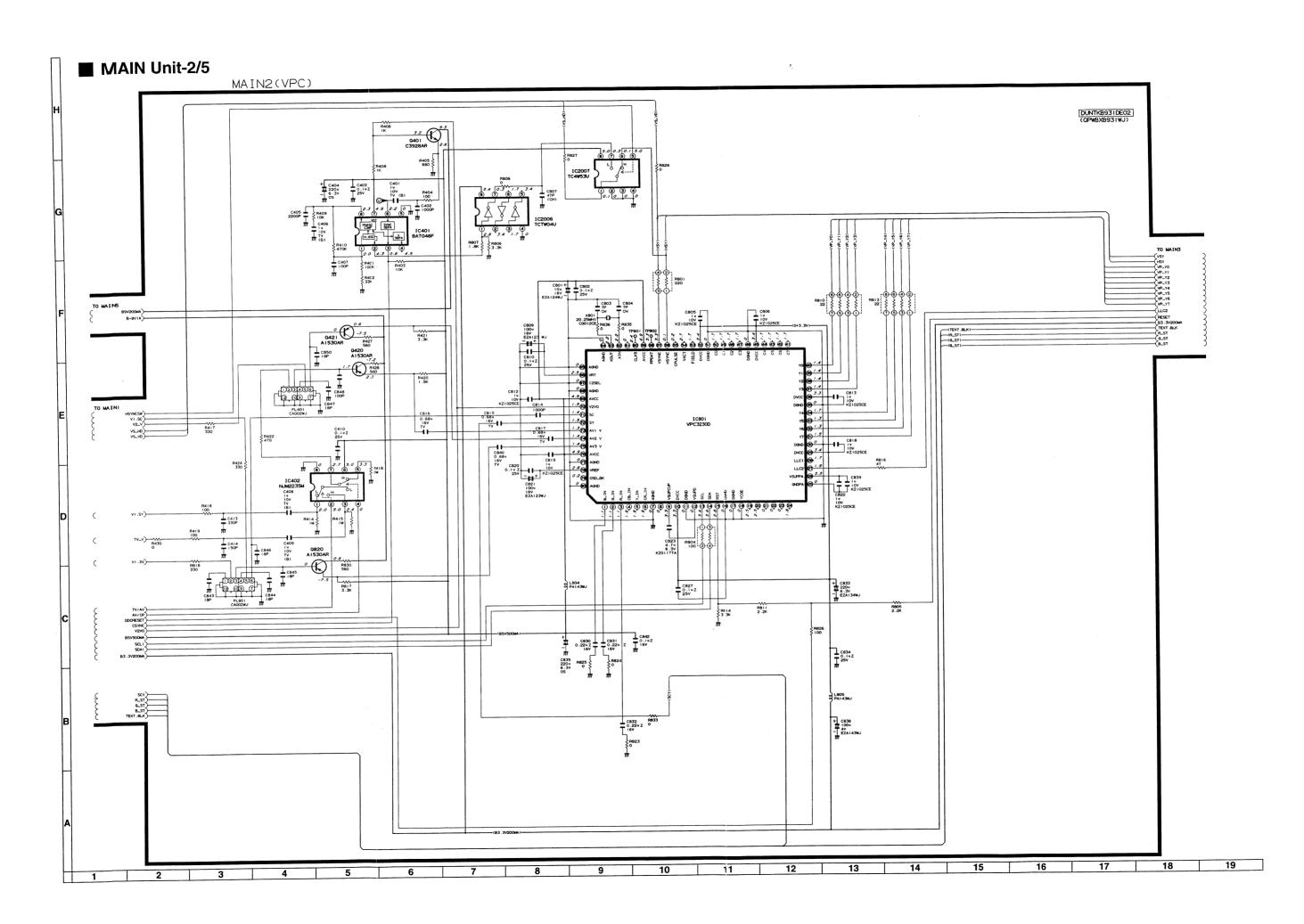


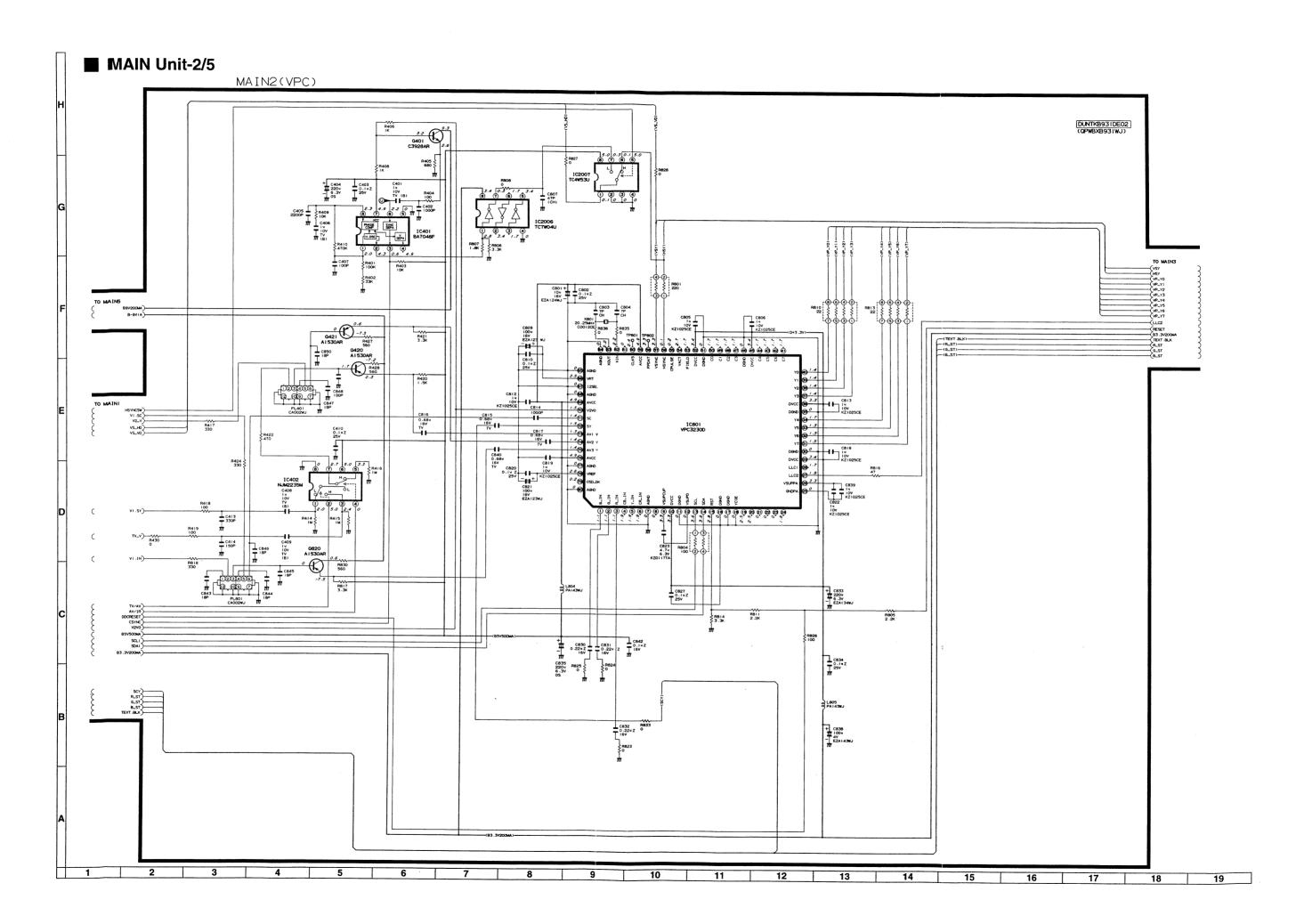
### Connection and Cables 20" Kit Spezification

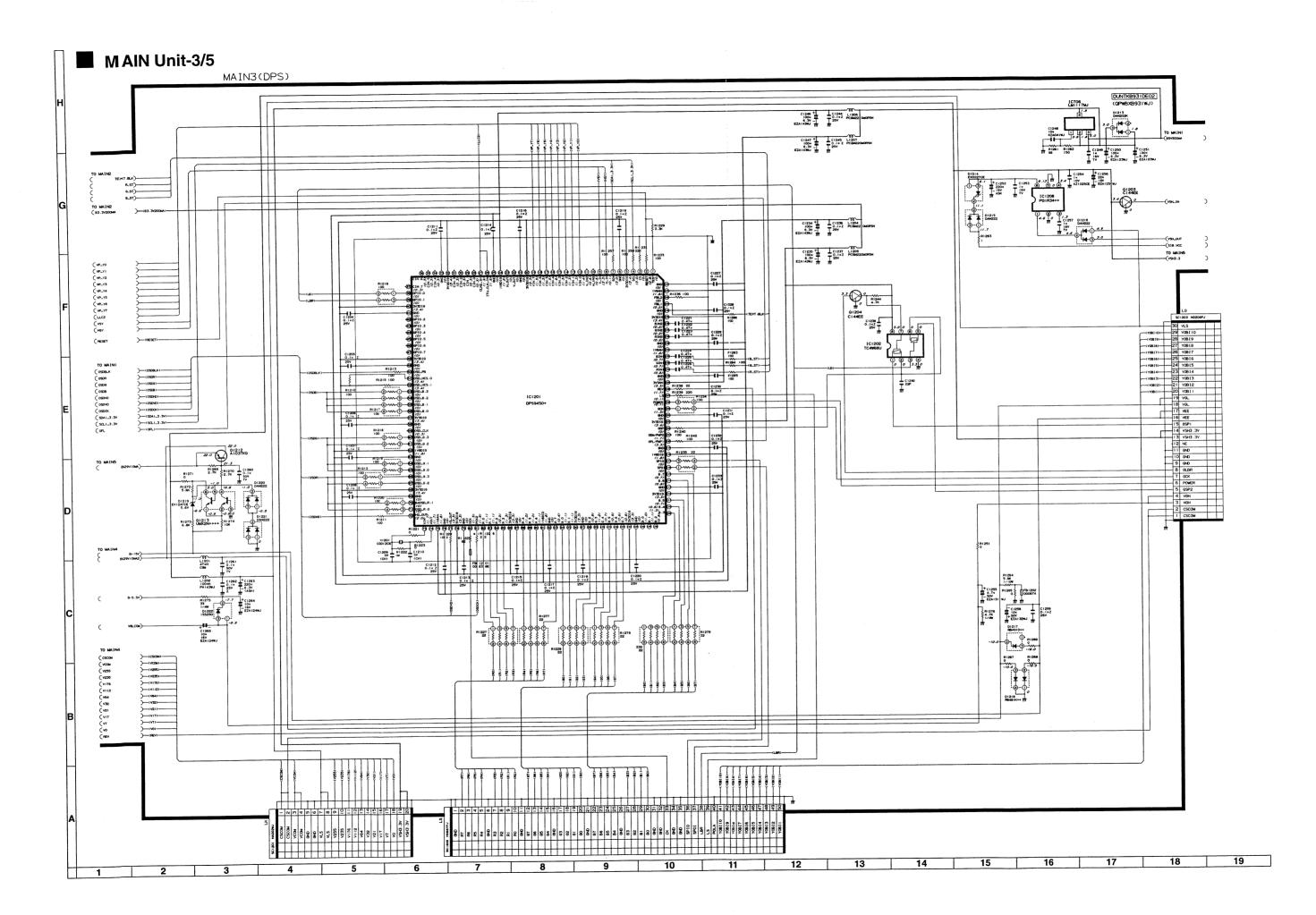


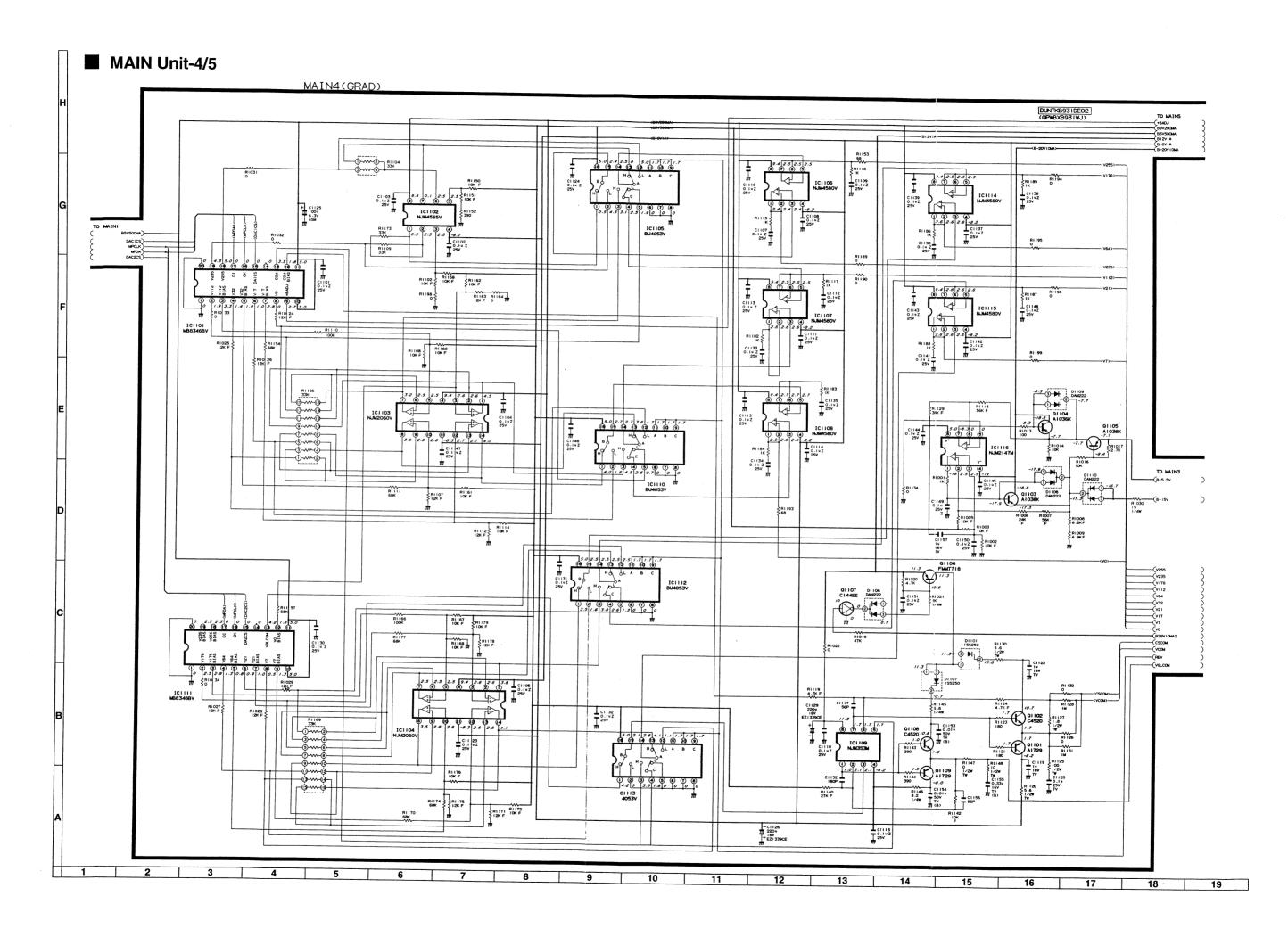


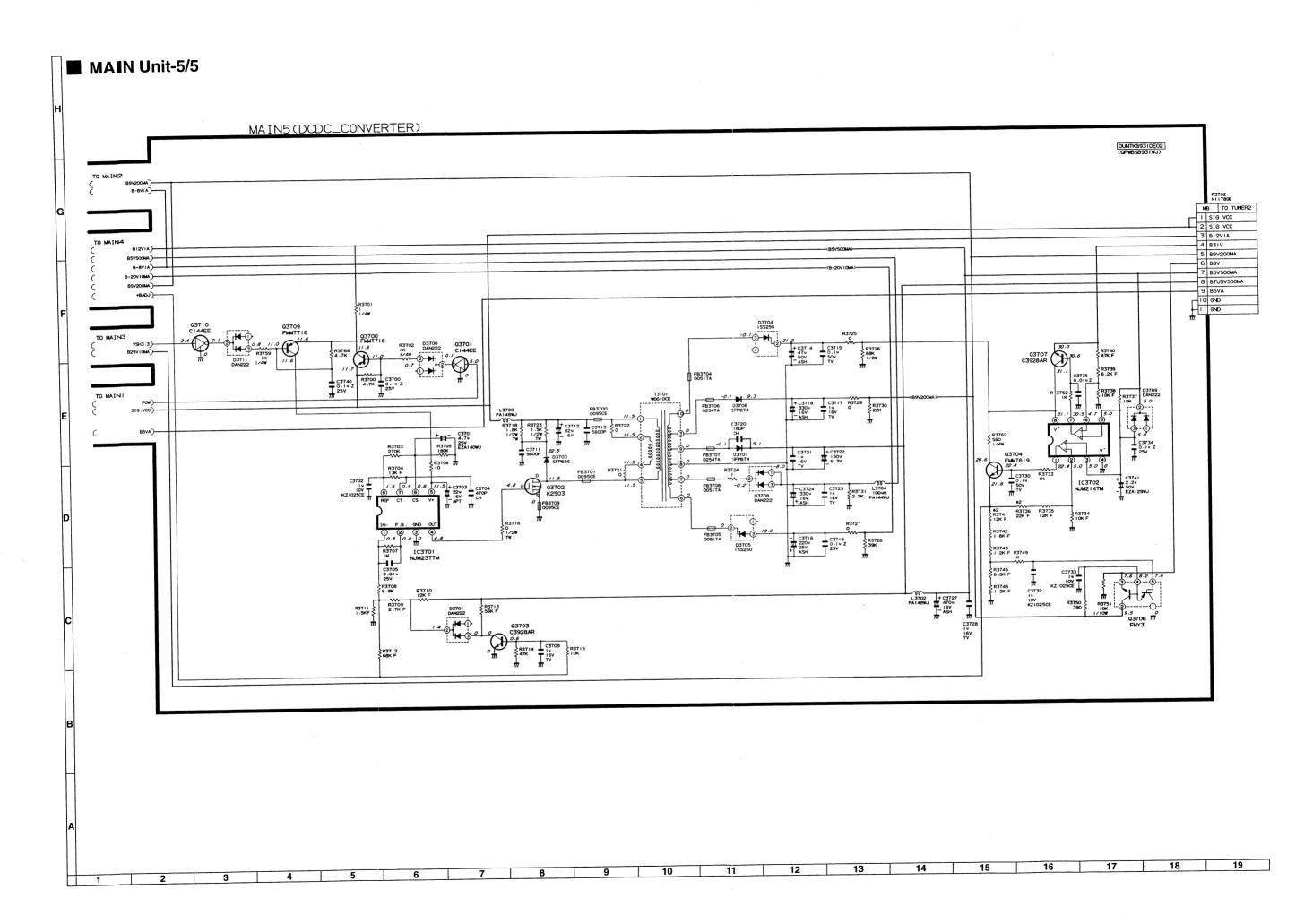


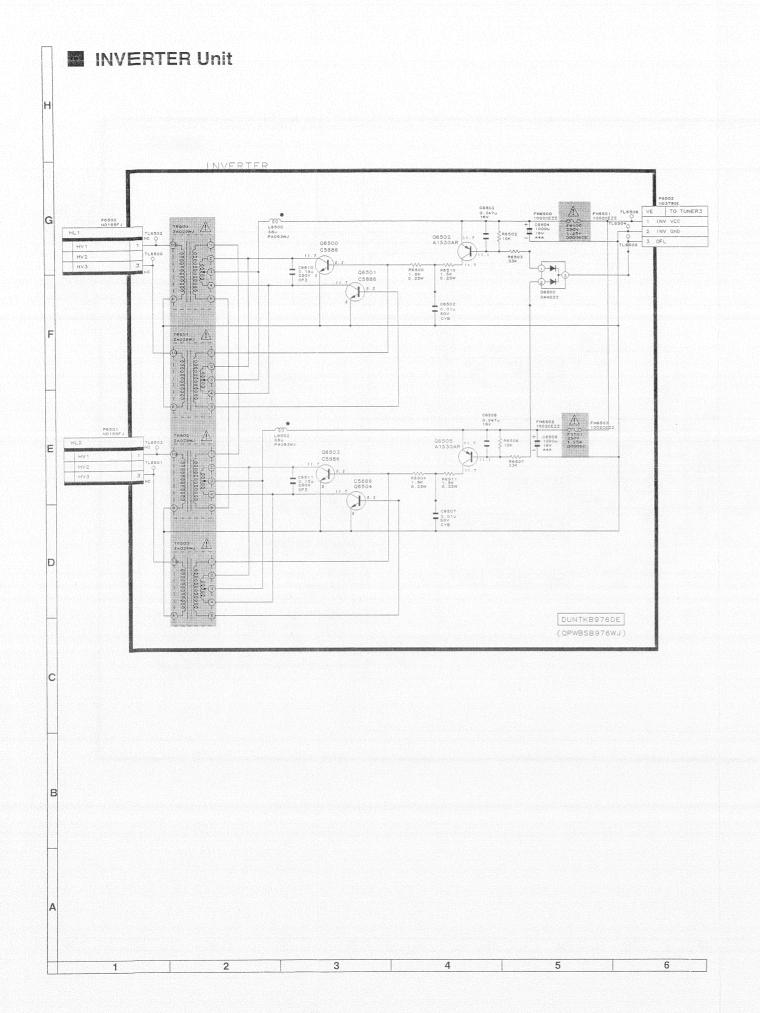


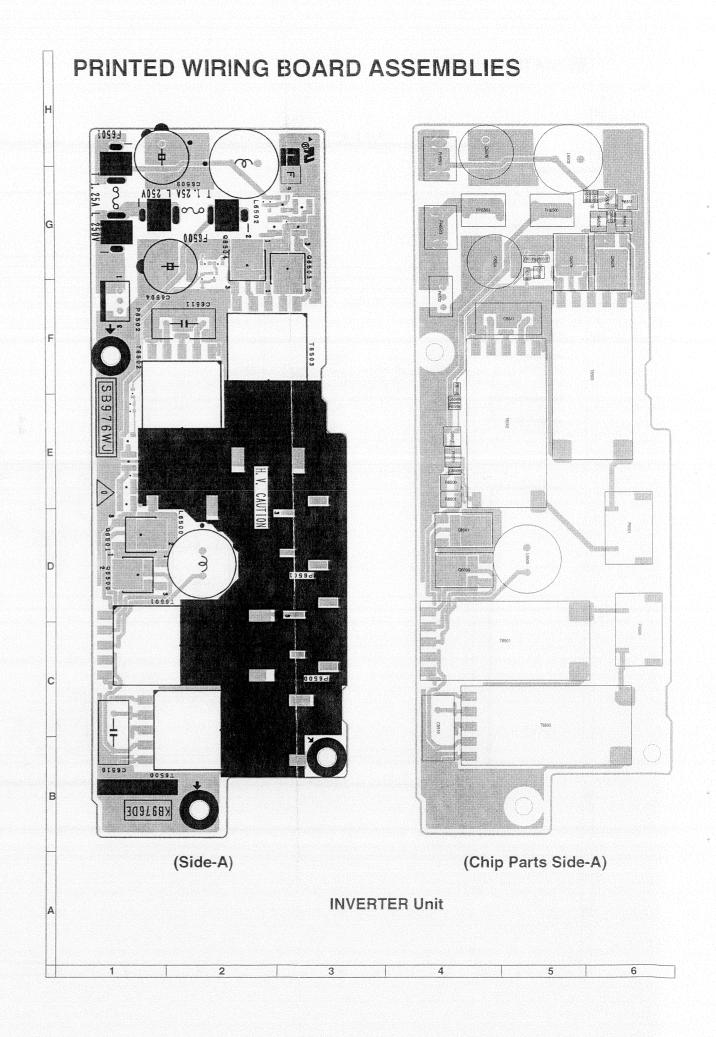


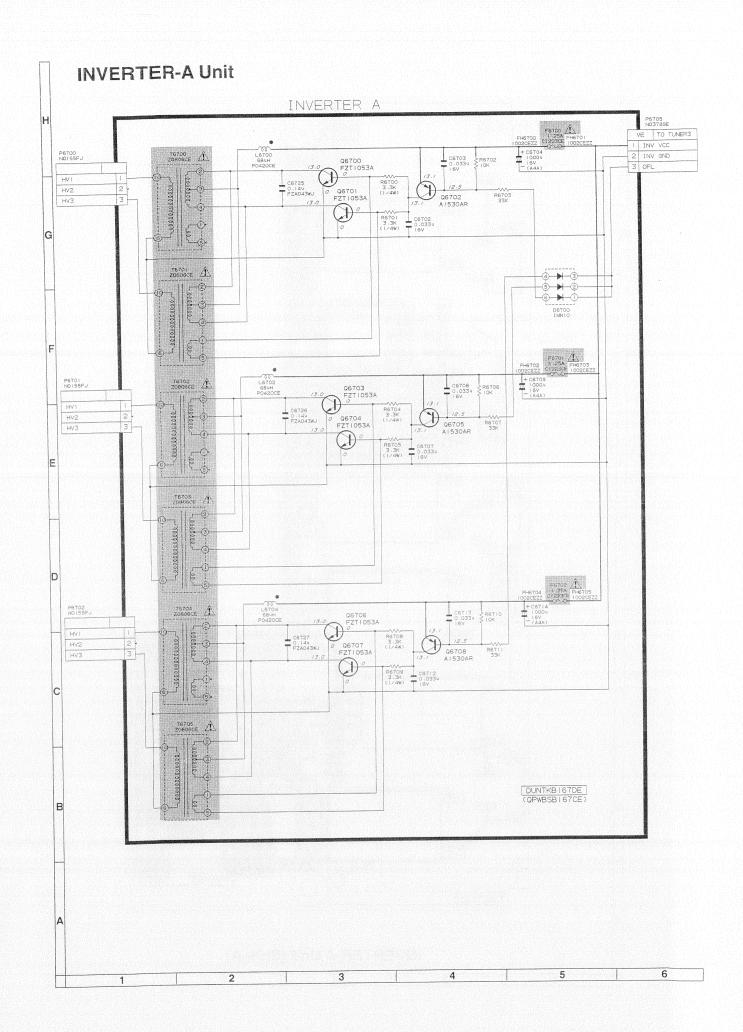


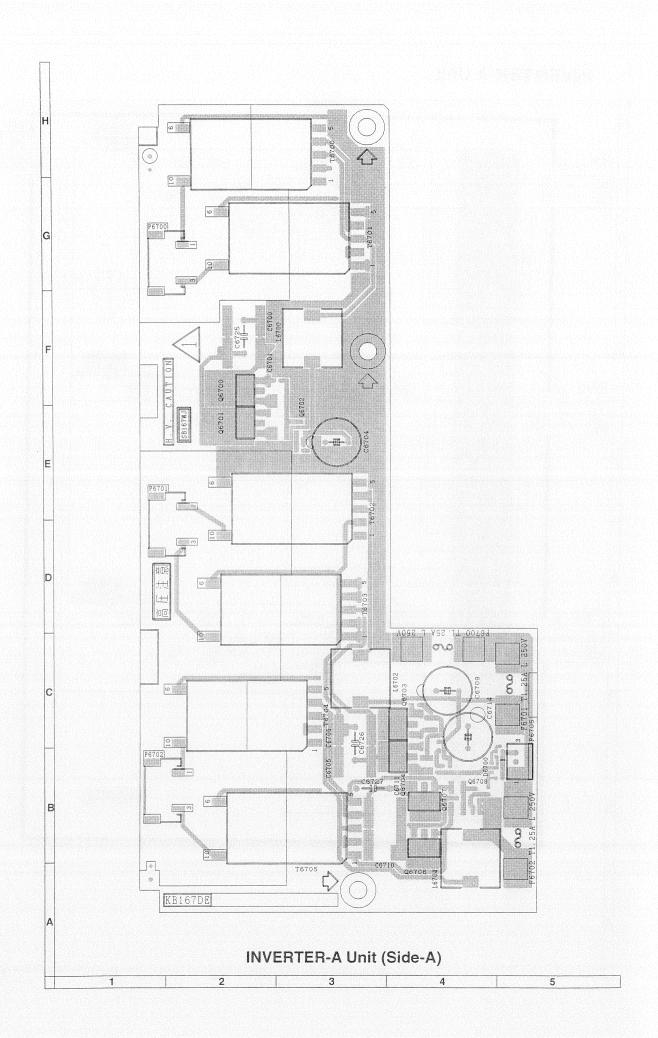


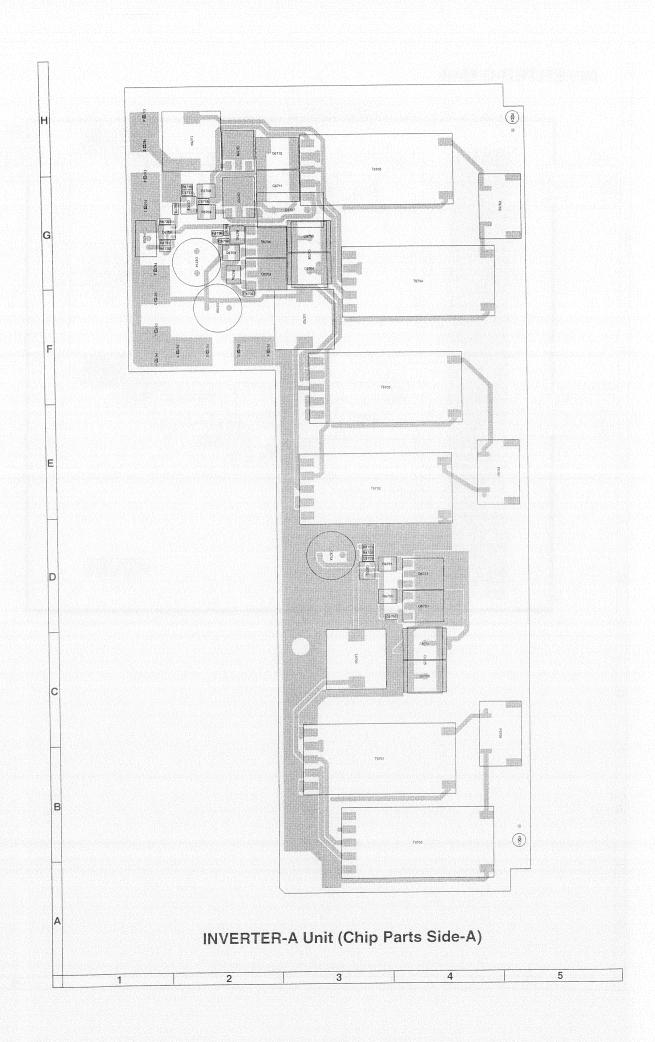


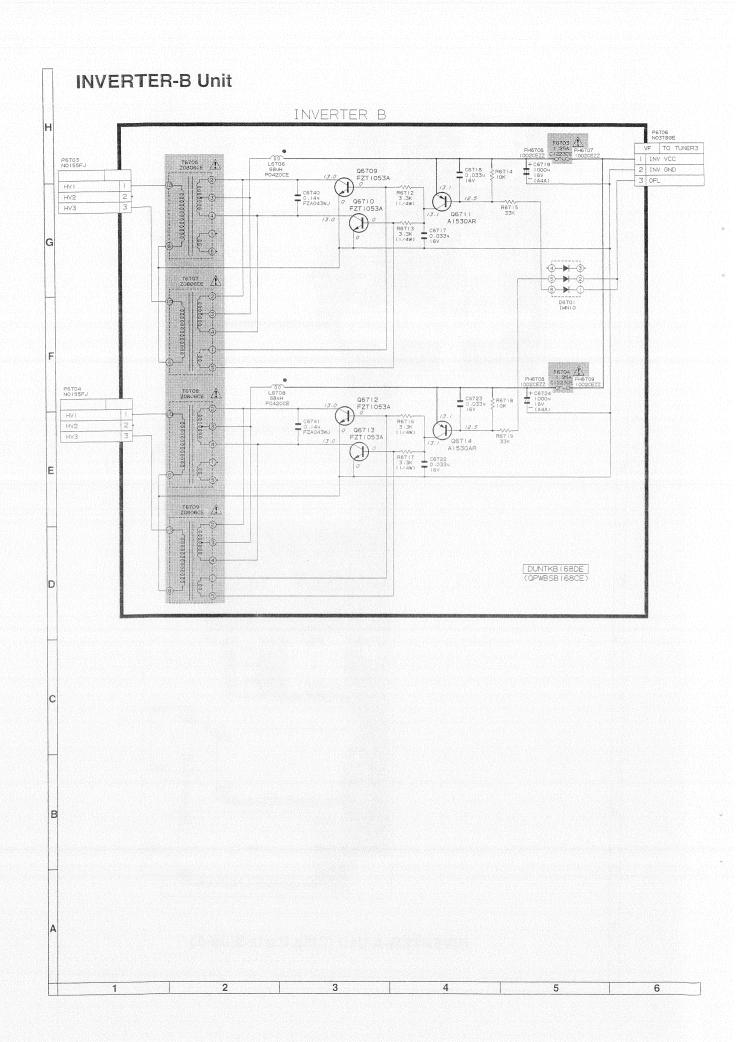


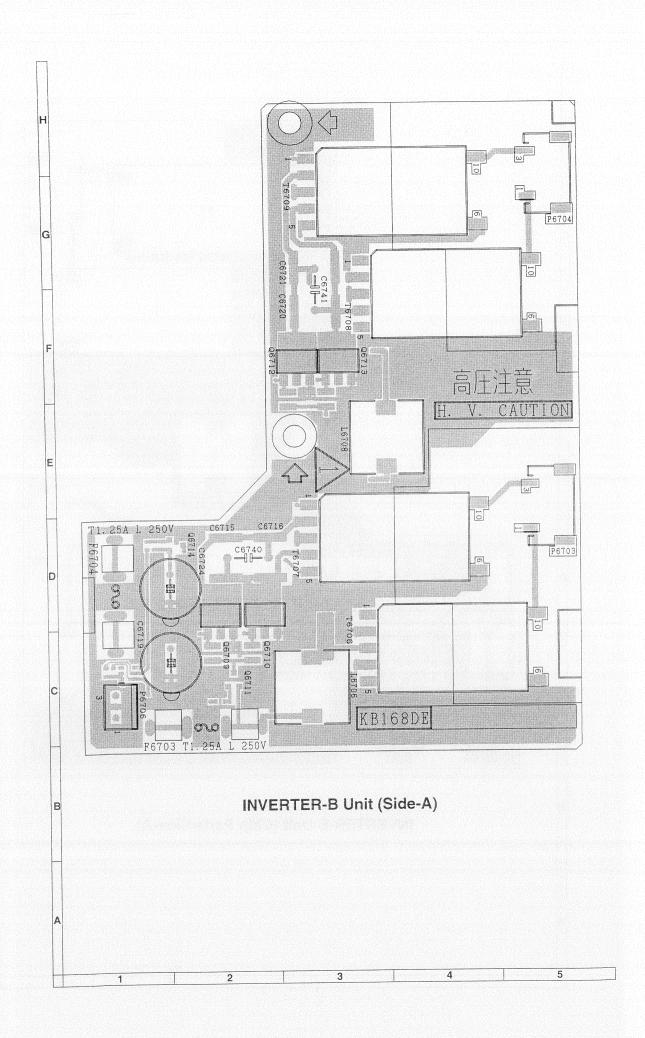


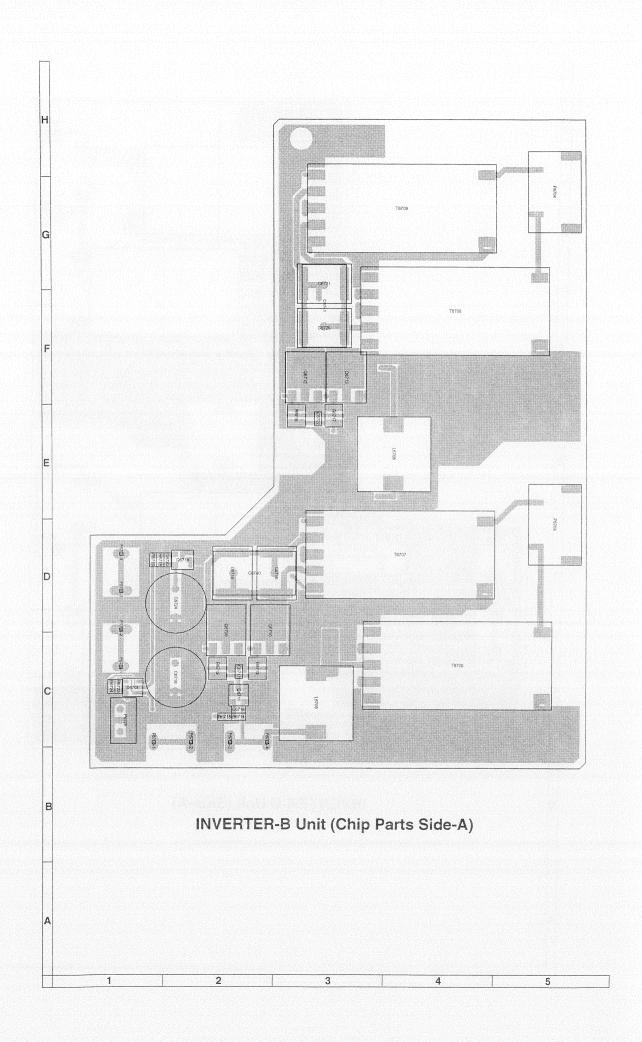


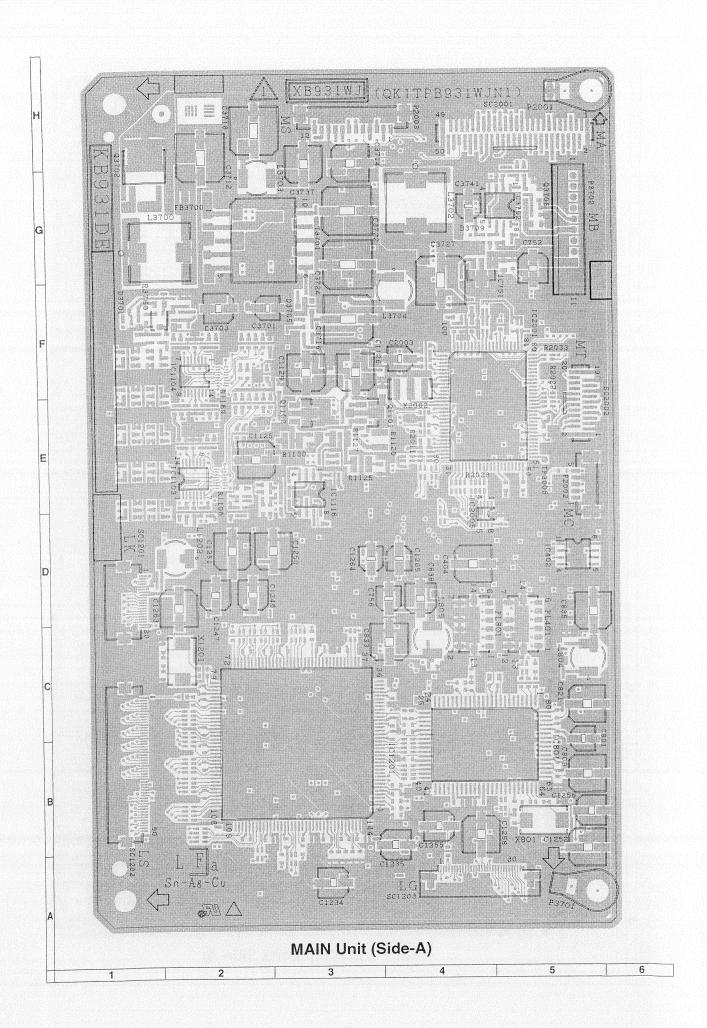


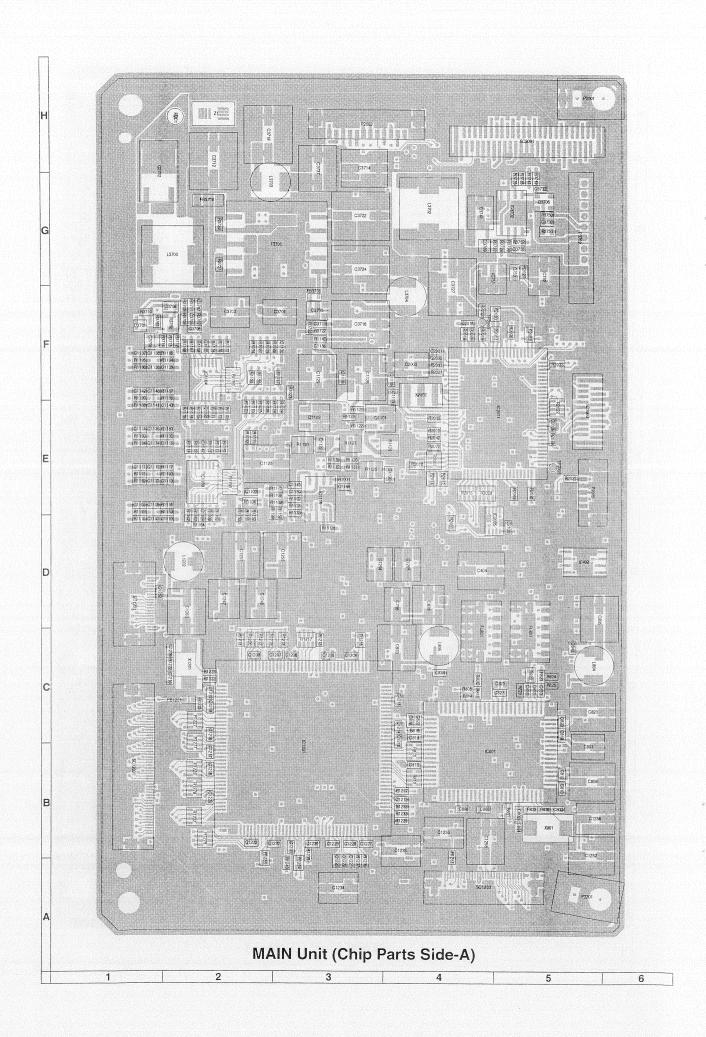


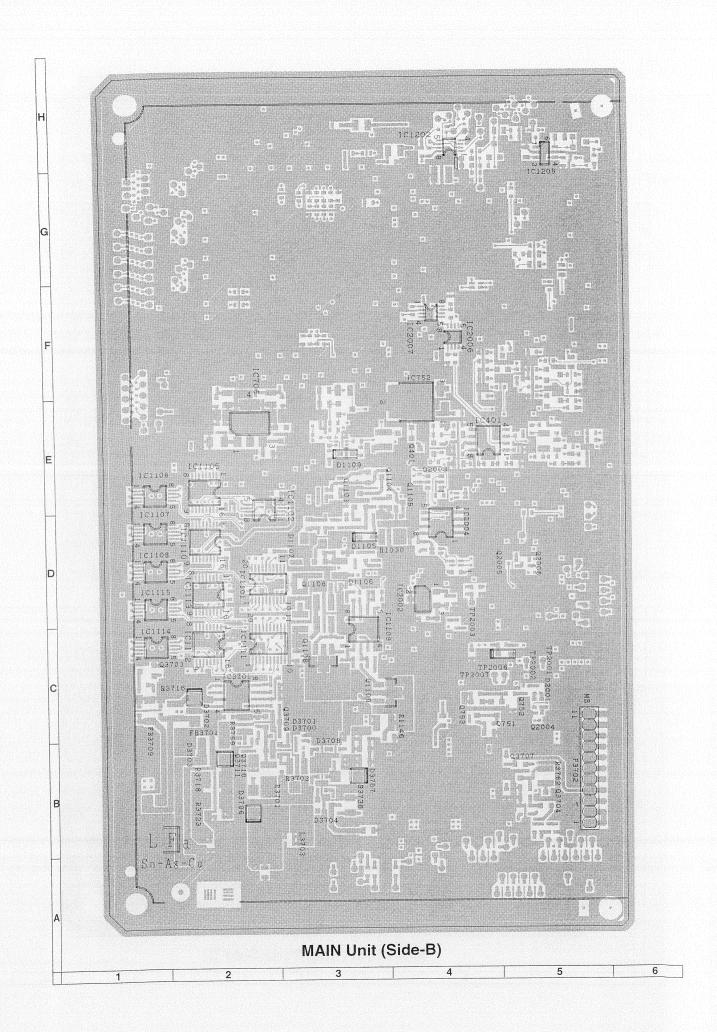


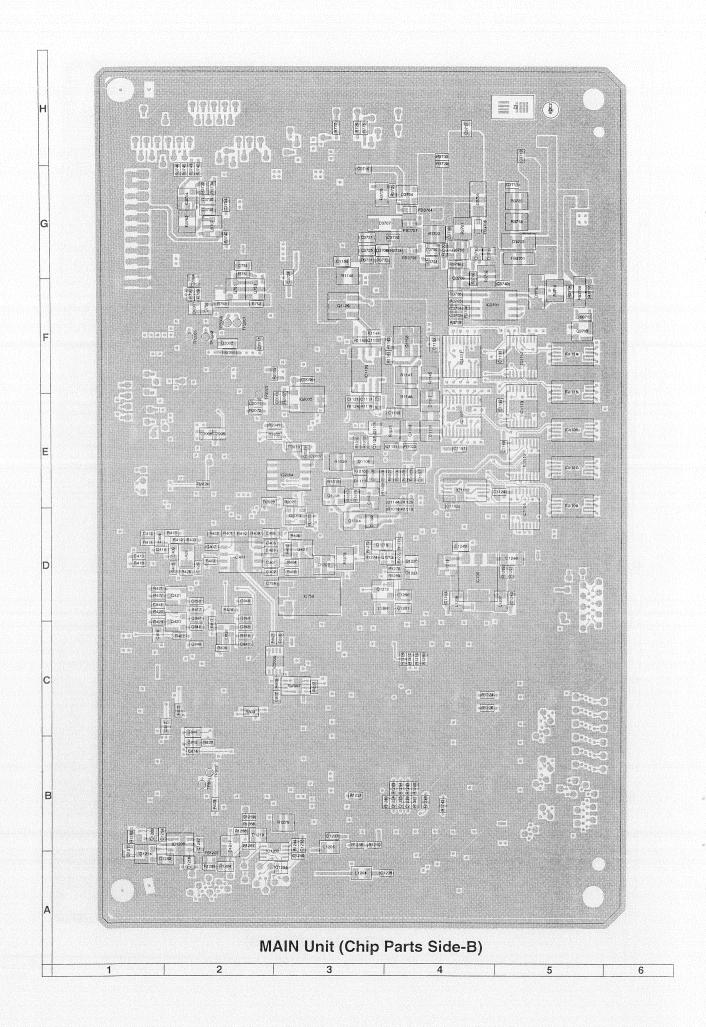


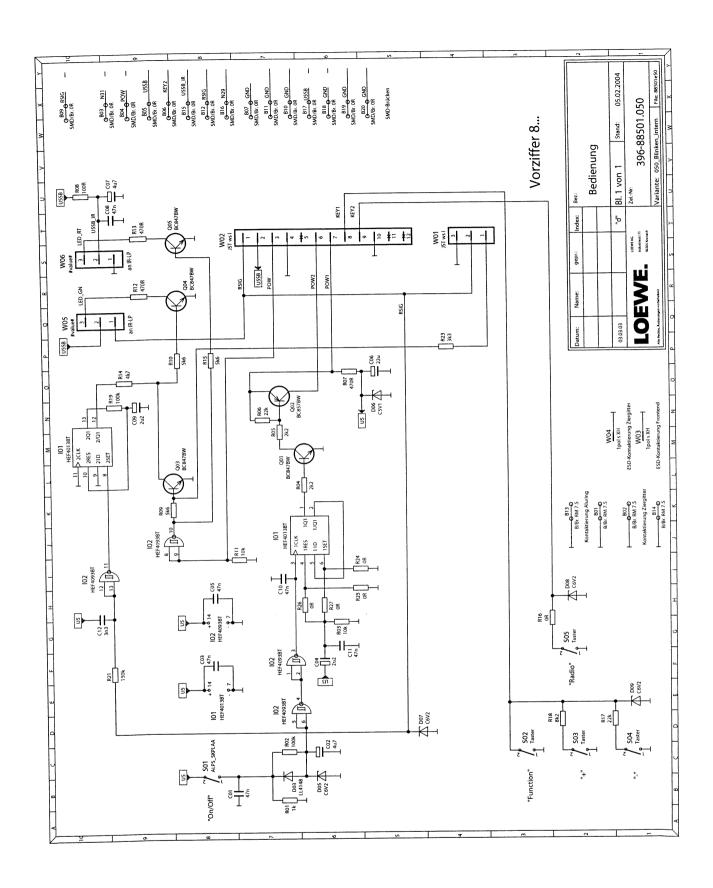


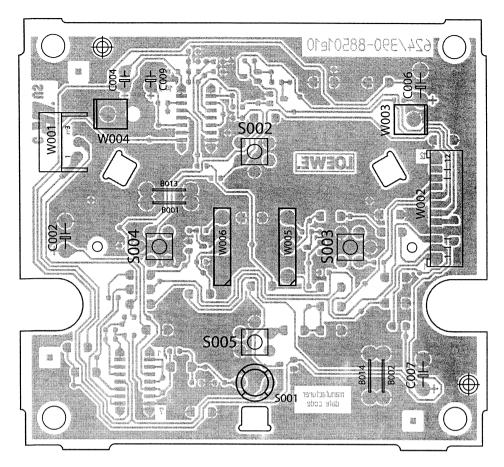




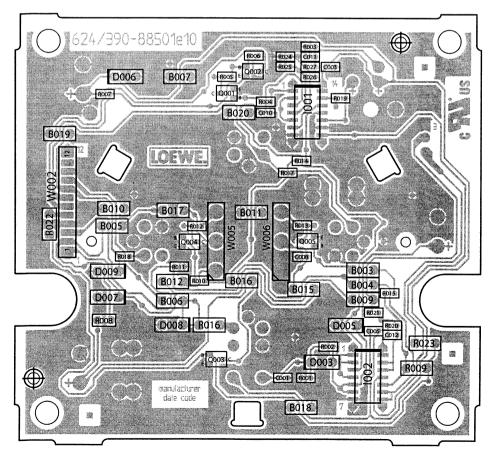




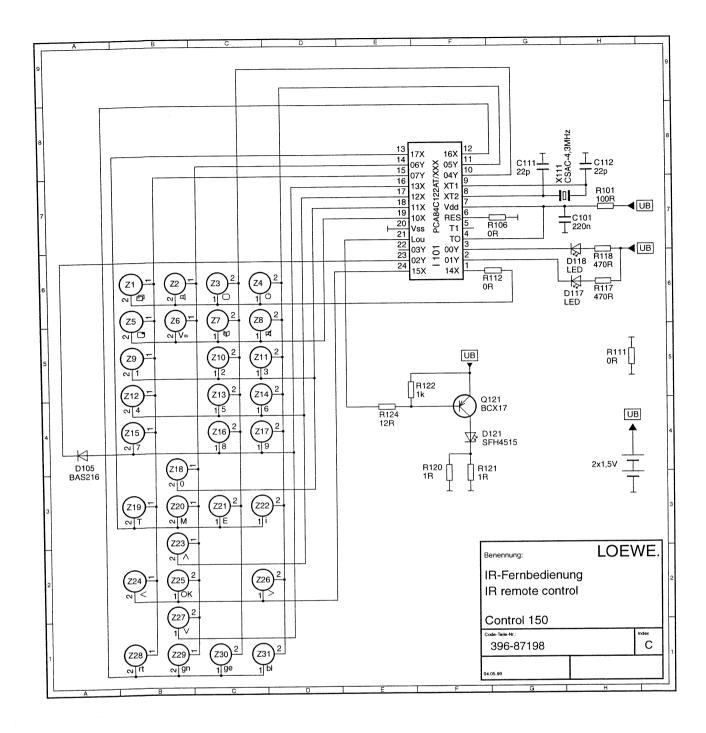




Ltpl. Bedienteil 88501E Bestückungsseite • Control Unit P.C.B 88501E Components side

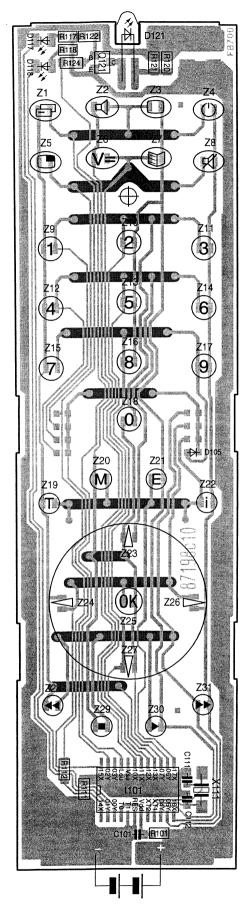


Ltpl. Bedienteil 88501C Lötseite • Control Unit P.C.B 88501C Solder side



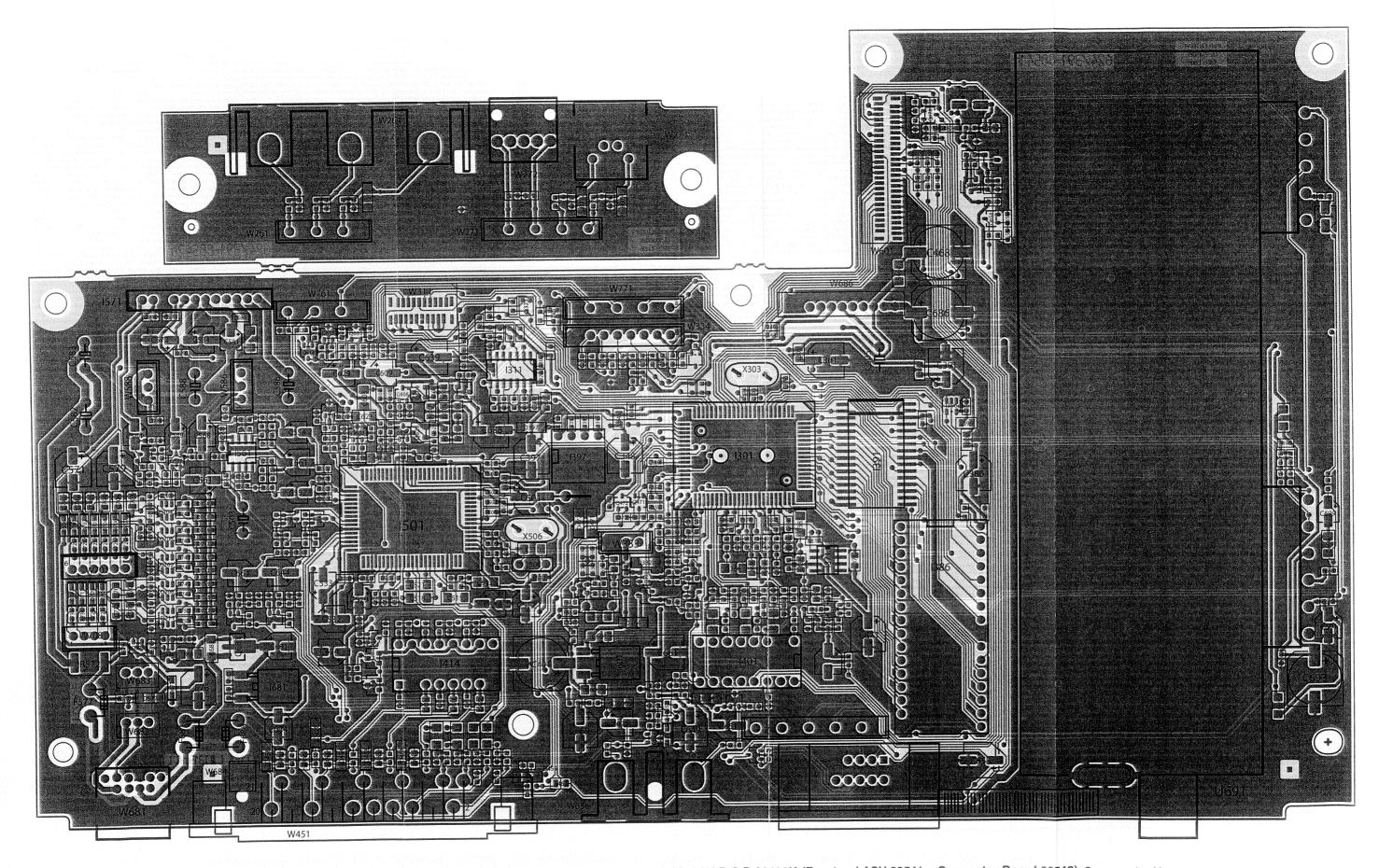


263-87000.060

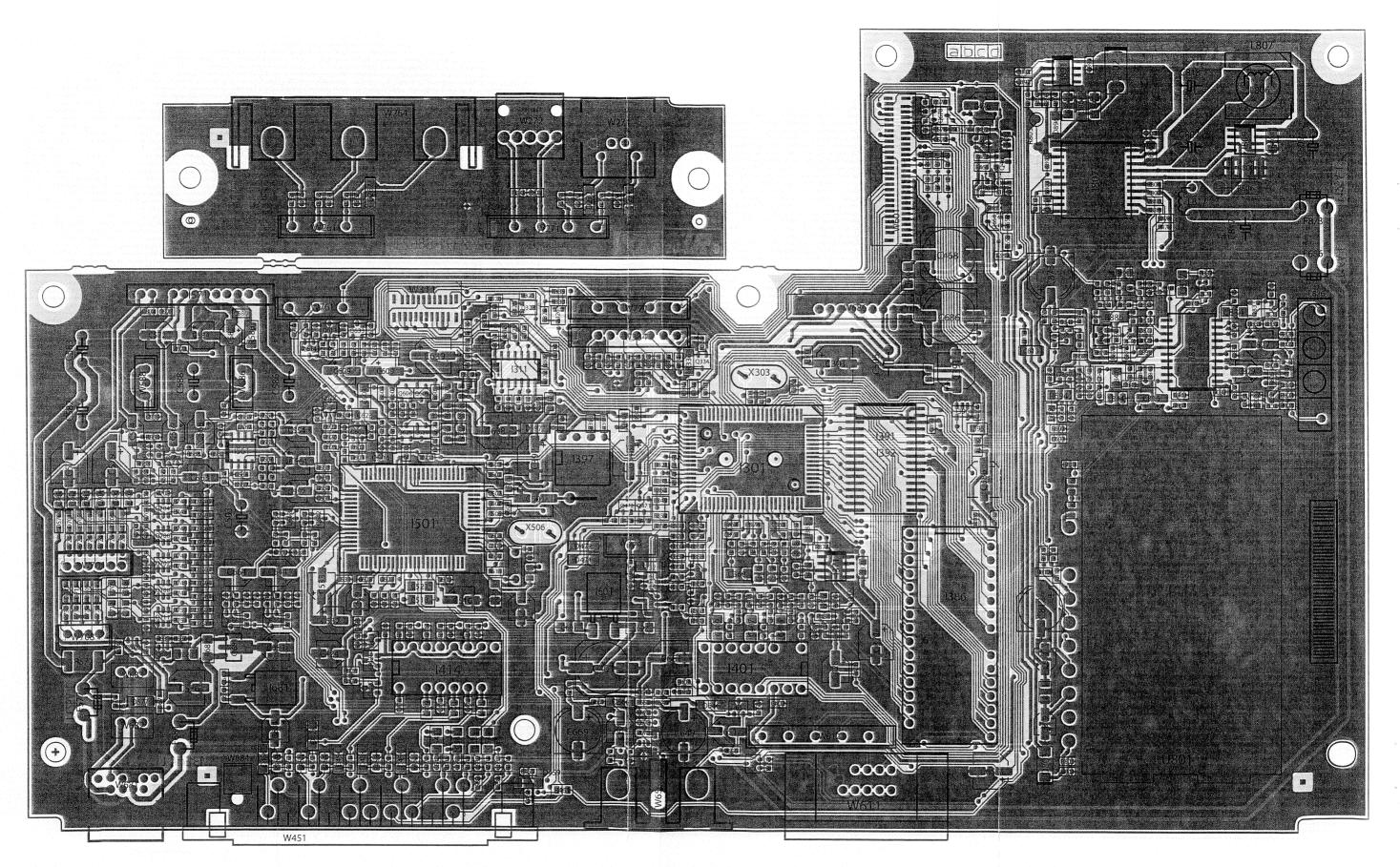


2 x Micro LR 03 Alkali / Mangan

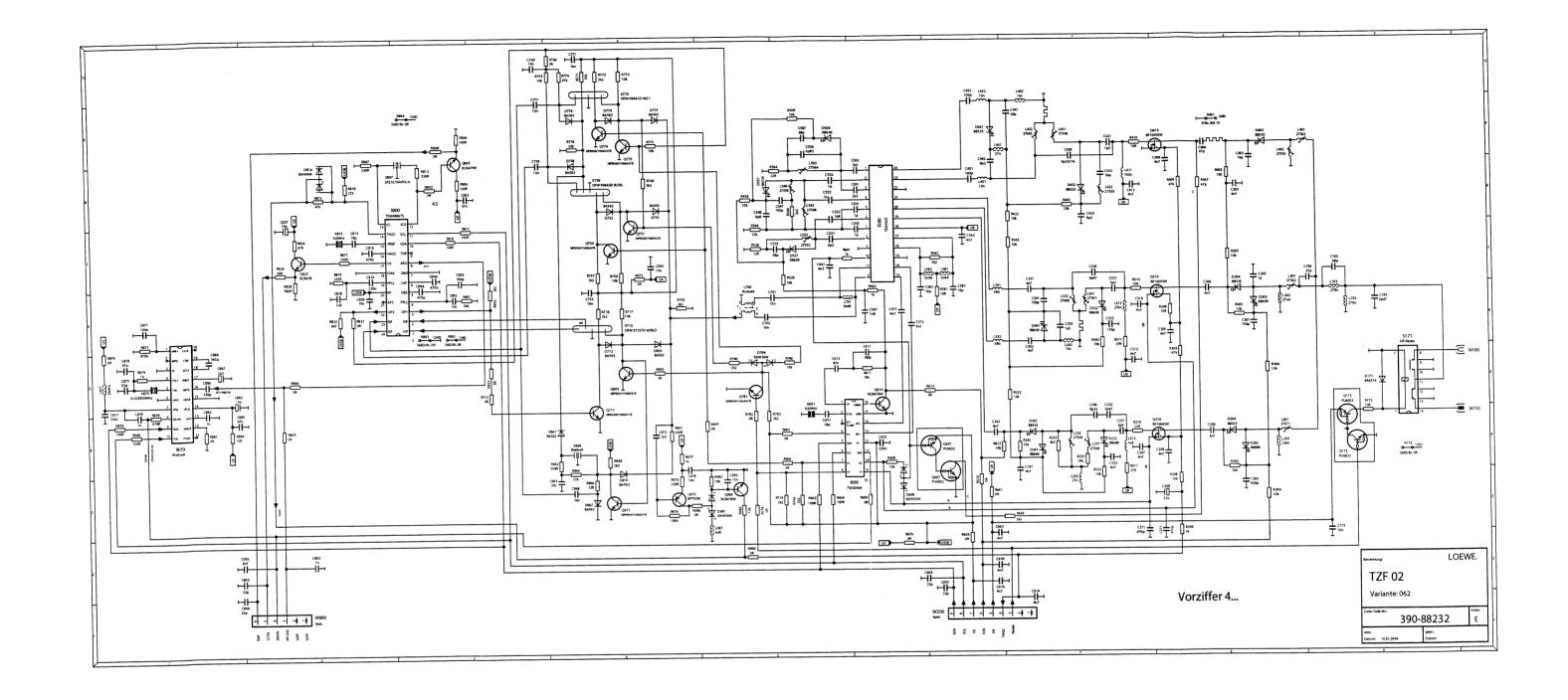
Ltpl. IR-Fernbedienung 396-87198C Infrared remote control PCB Bestückungsseite • Components side

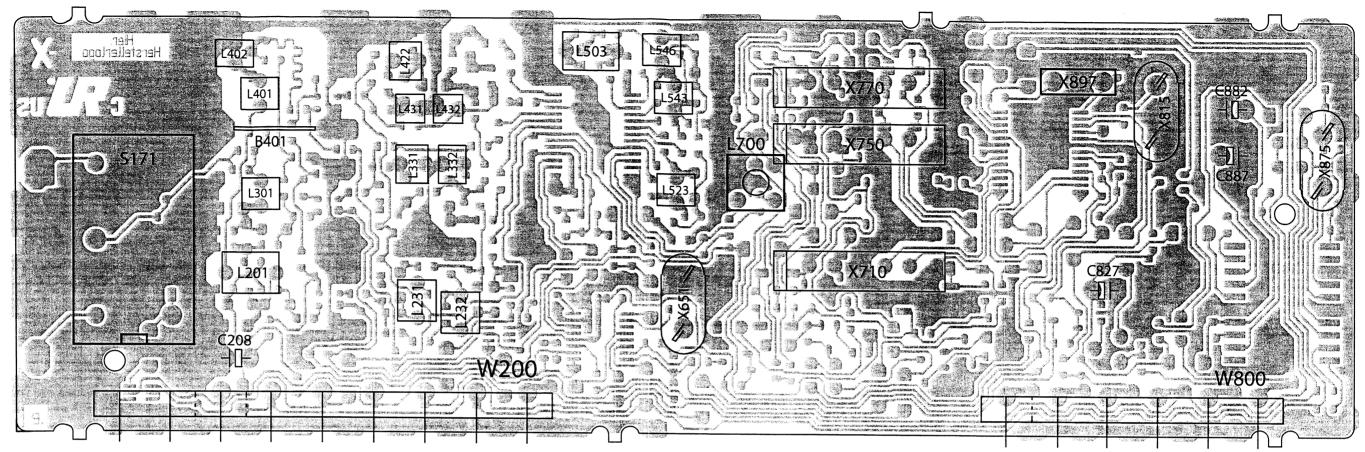


Ltpl. Frontend LCD Display 88492H (Frontend ASV 88541 + Buchenplatte 88542) Bestückungsseite • Frontend LCD ASV P.C.B 88492H (Frontend ASV 88541 + Connector Board 88542) Components side

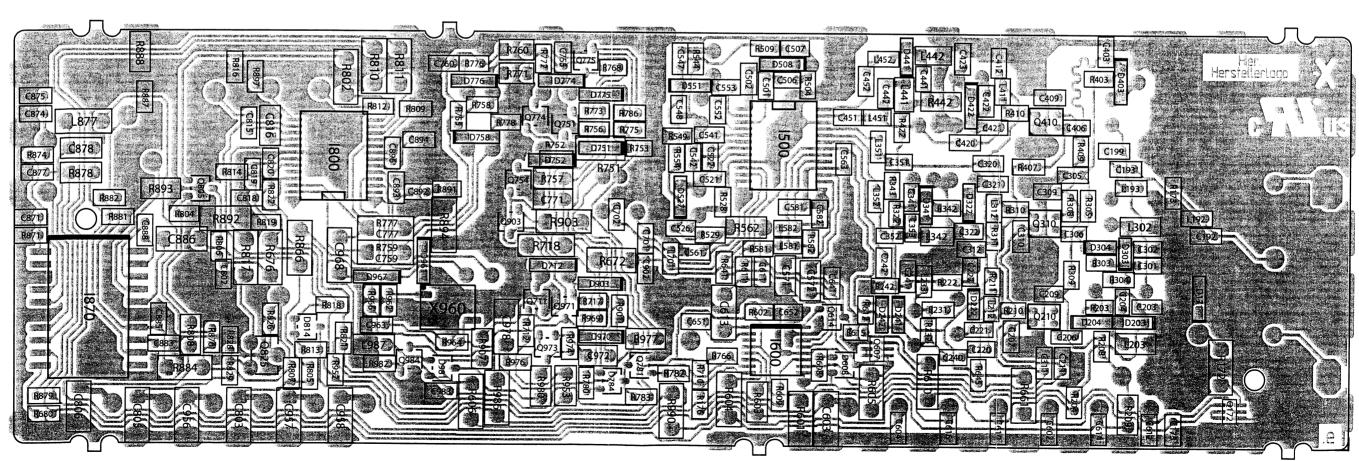


Ltpl. Frontend LCD Display SAT 88621C (Frontend ASV 88622 + Buchsenplatte 88623) Bestückungsseite • Frontend LCD Display SAT P.C.B. 88621C (Frontend ASV 88622 + Connector Board 88623) Components side





Tuner/ZF 88232E (av) Bestückungsseite • Tuner/IF P.C.B 88232E (av) Components side



Tuner/ZF 88232E (av) Lötseite • Tuner/IF P.C.B 88232E (av) Solder side

L 301		63402.x23	63402.x60	63406.x23	63406.x60	63401.x23	63401.x60	63448.x23	63448.x60/70	ArtNr. ArtN°.
Baugruppen • Componer		Mimo 15	Mimo 15	Mimo 20	Mimo 20	Spheros 20	Spheros 20	Xelos 20	Xelos 20	Geräte Typ TV set type
Frontend LCD-Display	396-88621.051	•	_	-	_	0,	3,			
Frontend ASV	396-88622.051	•								
Buchsenplatte • Connector Board	396-88623.051	•								-
Frontend LCD-Display	396-88621.052			•		•		•		
Frontend ASV	396-88622.052			•		•		•		
Buchsenplatte • Connector Board	396-88623.052			•		•		•		
Frontend LCD-Display	396-88492.053		•							
Frontend ASV	396-88541.053		•							1
Buchsenplatte • Connector Board	396-88542.053		•							]_
Frontend LCD-Display	396-88492.054				•		•		•	Geräte Baugruppen Set components
Frontend ASV	396-88541.054				•		•		•	eräte Baugruppe Set components
Buchsenplatte • Connector Board	396-88542.054				•		•		•	Bau Dmp
Tuner-ZF 01 MR	396-88232.062		•		•		•		•	räte et c
LCD-Display	345-90418.902	•	•							ြန္မ
Main Unit	396-90417.986	•	•							_
Inverter Unit	396-90417.987	•	•							
LCD-Display	345-90416.950			•	•	•	•	•	•	_
Main Unit	396-90418.901			•	•	•	•	•	•	_
Inverter-A Unit	396-90416.902			•	•	•	•	•	•	
Inverter-B Unit	396-90416.903			•	•	•	•	•	•	_
IR-Geber • Remote Control "Control 150 TV"	263-87000.060	•	•	•	•	•	•	•	•	_
Bedienteilplatte • Control Board	396-88501.050	•	•	•	•	•	•	•	•	

Mimo 15 63402.x23-60

Poe Nr	Bestell-Bezeichnung	Description	Bestell-Nr. Var.
Item N°.		List Part N°.	Var.
	BAUGRUPPEN	UNITS	
U0001	Inverter Unit L3010 15 Zoll		
U0002	Main Unit L3010 15 Zoll		
U0003	LCD-Display 15 Zoll / LC15B4L	LCD-Display 15 Zoll / LC15B4L	345-90418.902
115	Netzteiladapter LCD 15		
120	Frontend LCD Display MIMO 15 kpl	P.C.B	396-88492.051 A60
120	Frontend LCD Display MIMO 15 kpl	P.C.B	396-88492.051 K60
120	Frontend LCD Display MIMO 15 SAT kpl	P.C.B	396-88621.051 A23
120	Frontend LCD Display MIMO 15 SAT kpl	P.C.B	396-88621.051 K23
300	Bedienteil SPHEROS 20 kpl	P.C.B	396-88501.050
	DRUCKSACHEN	OPERATING INSTRUCTIONS	
500	BAN -D-I MIMO 15	Operating Instructions	233-31669 A60
500	BAN -D-I MIMO 15	Operating Instructions	233-31669 K60
500	BAN -D-I MIMO15/SPHEROS20/XELOS SL20 SAT	Operating Instructions	233-31715 K23
502	BAN -NL-F MIMO 15	Operating Instructions	233-31669.010 A60
502	BAN -NL-F MIMO 15	Operating Instructions	233-31669.010 K60
502	BAN -NL-F MIMO15/SPHEROS20/XELOS SL20 S	Operating Instructions	233-31715.010 K23
503	BAN -GB-E MIMO 15	Operating Instructions	233-31669.020 A60
503	BAN -GB-E MIMO 15	Operating Instructions	233-31669.020 K60
503	BAN -GB-E MIMO15/SPHEROS20/XELOS SL20 S	Operating Instructions	233-31715.020 K23
570	Garantie- und Service-Card Version A	Indicating Sheet	240-31300
571	LOEWE Marketing-Card	Indicating Sheet	240-31294
572	Rückumschlag Marketing-Card	Indicating Sheet	240-31298
	GERÄTEBEIPACK	SET SUPPLEMENT	
499	Adapterstecker für Antennenitg	Plug	321-25019 A60
499	Adapterstecker für Antennenltg	Plug	321-25019 K60
A0640	Mikrozelle 1,5V Alkali-Mangan	Accumulator	280-13411
U9111	IR-Fernbedienung CONTROL 150 TV arktis	Transmitter	263-87000.060
	VERPACKUNGSMATERIAL	PACKING MATERIAL	
600	Schachtel MIMO 15	Packing Case	245-88967.002
610	Verpackungsformteil MIMO 15	Cushion-Set	252-88965.050
630	Schutzstreifen 1200x800mm	Protective Packing	253-84666.001
J0701	Schutzstreifen 350x190mm (IR-G.)		
	KNÖPFE	BUTTONS	
320	Tastenset silber matt MIMO 15	Button	682-88869.016
	GEHÄUSETEILE	CABINET MOUNTING	
110	Halter Träger/Kippmechanik MIMO 15		602-88736.001
111	Schaumstoffdichtung links MIMO 15	Foam Plastics Ledge	411-88944.001
112	Schaumstoffdichtung rechts MIMO 15	Foam Plastics Ledge	411-88944.101
113	Zwischenstück	<u>-</u>	
113	Zwischenstück		
499	Abdeckkappe		
499	Abdeckkappe	,	
G104	Blende platin MIMO 15	·	
G104	Blende platin MIMO 15		
G104	Blende cream MIMO 15		
G104	Blende cream MIMO 15		
G105	Tischfuß platin MIMO 15		
G110	Rückwand platin MIMO 15		
G110 G112	Abdeckung Rückwand platin MIMO 15		
UTIZ	SPULEN/LAUTSPRECHER	COILS,SPEAKERS	
900	Lautsprecher 8 Ohm 3W BB	•	272-88620
800	,	·	212-00029
	SPEZIALTEILE	SPECIAL PARTS	
00001	Dicatic Dahmon 1F 7all	Diactic Frame 15 7ell	
G0001 G0002	Plastic-Rahmen 15 Zoll Lampen-Set kpl. L3010 15 Zoll		

Mimo 2	20		50 100 Mar
Pos.Nr. Item N°.	Bestell-Bezeichnung	Description List Part N°.	Bestell-Nr. Var. Var.
	BAUGRUPPEN	UNITS	
U0001	Inverter-A Unit	Inverter-A Unit	396-90416.902
U0002	Inverter-B Unit	Inverter-B Unit	396-90416903
U0003	Main Unit L3010 20 Zoll	Main Unit L3010 20 Zoll	396-90418.901T
U0004	LCD-Display 20 Zoll / A4LC20B2L	LCD-Display 20 Zoll / A4LC20B2L	
115	Netzteiladapter LCD 20	Power Pack	815-88716.001
120	Frontend I CD Display 20Z SAT kpl	P.C.B	396-88621.052 A23
120	Frontend I CD Display 20Z SAT kpl	P.C.B	396-88621.052 K23
300	Redienteil I CD 15/20 kpl.	P.C.B	396-88501.050
U120	Frontend LCD Display SPHE/XEL/MIM 20 kpl	P.C.B	
	Frontend LCD Display SPHE/XEL/MIM 20 kpl	P.C.B	396-88492.054 K60
U120	DRUCKSACHEN	OPERATING INSTRUCTIONS	
<b>500</b>	BAN -D-I Mimo/Spheros 20/Xelos SL20	Operating Instructions	233-31669.002 A60
500	BAN -D-I Mimo/Spheros 20/Xelos SL20	Operating Instructions	233-31669.002 K60
500	BAN -D-I Mimo15/20/Xelos20/Spheros 20 SAT	Operating Instructions	233-31715.001 A23
500	BAN -D-I Mimo15/20/Xelos20/Spheros 20 SAT	Operating Instructions	233-31715.001 K23
500	BAN -NL-F Mimo/Spheros 20/Xelos SL20	Operating Instructions	233-31669.012 A60
502	BAN -NL-F Mimo/Spheros 20/Xelos SL20	Operating Instructions	233-31669.012 K60
502	BAN -NL-F Mimo/Spheros 20/Aeios 3L20  BAN -NL-F Mimo15/20/Xelos20/Spheros 20 SA	Operating Instructions	233-31715.011 A23
502	BAN -NL-F Mimo15/20/Xelos20/Spheros 20 SA BAN -NL-F Mimo15/20/Xelos20/Spheros 20 SA	Operating Instructions	233-31715.011 K23
502	BAN -NL-F Mimo15/20/Xelos20/Spneros 20 SA	Operating Instructions	233-31669.022 A60
503	BAN -GB-E Mimo/Spheros 20/Xelos SL20	Operating Instructions	233-31669 022 K60
503	BAN -GB-E Mimo/Spheros 20/Xelos SL20	Operating instructions	233-31715 021 A23
503	BAN -GB-E Mimo15/20/Xelos20/Spheros 20 SA	Operating instructions	232 31715 021 K23
503	BAN -GB-E Mimo15/20/Xelos20/Spheros 20 SA	Operating instructions	240 21770 002
505	Hinweisblatt Tischfuß Mimo20 Xelos20	Indicating Sheet	240-31779.003
570	Garantie- und Service-Card Version A	Indicating Sheet	240-31300
571	LOEWE Marketing-Card	Indicating Sheet	
572	Rückumschlag Marketing-Card		240-31298
	GERÄTEBEIPACK	SET SUPPLEMENT	700 04004 A00
124	Quick-F-Winkeladapter	Angle	592-31324 A23
124	Quick-F-Winkeladapter	Angle	592-31324 K23
499	Adapterstecker für Antennenltg.	Plug	321-25019 A60
499	Adapterstecker für Antennenitg	Plug	321-25019 K60
A0640	Mikrozelle 1,5V Alkali-Mangan	Accumulator	280-13411
U9111	IR-Fernbedienung CONTROL 150 TV arktis	Transmitter	263-87000.060
	VERPACKUNGSMATERIAL	PACKING MATERIAL	
600	Schachtel Mimo 20	Packing Case	245-89068.002
610	Verpackungsformteil Mimo 20	Cushion-Set	252-89067.050
630	Schutzstreifen 1200x800mm	Protective Packing	253-84666.001
J0701	Schutzstreifen 350x190mm (IR-G.)	Protective Packing	253-84666.004
30701	KNÖPFE	BUTTONS	
320	Knopf kpl. Xelos SL 20 / Mimo 20	Button	682-88496.051
320	GEHÄUSETEILE	CABINET MOUNTING	
404	Filzstreifen		414-25204
101	Klebestreifen für Rückwand	Foam Plastics Ledge	411-20926
102	Kabelclip selbstklebend	Cable Binding	530-25566
103	Zylinderschraube M8x10 DIN 7985 vzkt	Screw	432-31882
106	U-Scheibe 8,4x20x1,25 DIN 9022 vzkt	Washer	444-31883
108	O-Ring D14x2,5	Rubber Driving Belt	407-31913
109	O-Hing D14x2,5 Halter Träger/Kippmechanik Mimo 20	Holder	602-88416.121
110	Halter Träger/Kippmechanik Milmo 20 Zwischenstück	Clutch Piece	503-81237.102
112	Zwischenstück Träger Mimo 20	Supporter	541-89009 101
113	Träger Mimo 20	Clutch Diocs	503-81237 002
114	Klemmbuchse für Abdeckung	Corow	440-29047
116	EJOT-PT-Schraube KL40x11,5	Screw	505-31060 A23
499	Abdeckkappe	Oap	505-31060 K23
499	Abdeckkappe	Cap	MAN-21980
801	EJOT-PT-Schraube KL40x8	Screw	

Pos.Nr. tem N°.	Bestell-Bezeichnung	Description List Part N°.	Bestell-Nr. Var.	Var.
	GEHÄUSETEILE	CABINET MOUNTING		
<b>3104</b>	Blende platin Mimo 20	Cover Plate	706-88981.009	A23
G104	Blende platin Mimo 20	Cover Plate	706-88981.009	A60
3104	Blende cream Mimo 20	Cover Plate	706-88981.030	K23
3104	Blende cream Mimo 20	Cover Plate	706-88981.030	K60
G105	Tischfuß platin Mimo 15/Xelos SL 20	Stand	484-88823.009	
3110	Rückwand platin Mimo 20	Backcover	775-88975.009	
G112	Abdeckung Rückwand platin Spheros/Xelos	Mask	703-88406.009	
	SPULEN/Lautsprecher	COILS,SPEAKERS		
800	Lautsprecher 8 Ohm 10W 135x65	Loudspeaker	272-89033	
	SPEZIALTEILE	SPECIAL PARTS		
01	Plastic-Rahmen 20 Zoll	Plastic-Frame 20 Zoll	549-90418.903	
30002	Lampen-Set kpl	Set of Lamps	383-90418.934	
L0001	Ferritkern	Ferrite Core	522-90422.995	
Sphero	os 20		63401.)	(23-6
Pos.Nr. Item N°.	Bestell-Bezeichnung	Description List Part N°.	Bestell-Nr. Var.	Var.
	BAUGRUPPEN	UNITS		
J0001	Inverter-A Unit	Inverter-A Unit	396-90416.902	
J0002	Inverter-B Unit	Inverter-B Unit	396-90416903	
20003	Main Unit L3010 20 Zoll	Main Unit L3010 20 Zoll	396-90418.901	Γ
J0004	LCD-Display 20 Zoll / A4LC20B2L	LCD-Display 20 Zoll / A4LC20B2L	345-90416.950	
115	Netzteiladapter LCD 20	Power Pack	815-88716.001	
120	Frontend LCD Display SPHEROS 20 kpl	P.C.B	396-88492.052	A60
120	Frontend LCD Display SPHEROS/XELOS kpl	P.C.B	396-88492.052	M60
120	Frontend LCD Display SPHEROS 20 SAT kpl	P.C.B	396-88621.052	A23
120	Frontend LCD Display SPHEROS 20 SAT kpl	P.C.B		M23
300	Bedienteil SPHEROS 20 kpl	P.C.B	396-88501.050	
	DRUCKSACHEN	OPERATING INSTRUCTIONS		
500	BAN -D-I SPHEROS 20	Operating Instructions	233-30925	A60
500	BAN -D-I SPHEROS 20	Operating Instructions	233-30925	M60
500	BAN -D-I SPHEROS 20 SAT			A23
500	BAN -D-I SPHEROS 20 SAT			M23
502	BAN NL-F SPHEROS 20			A60
502	BAN NL-F SPHEROS 20			
502	BAN -NL-F SPHEROS 20 SAT			
502	BAN -NL-F SPHEROS 20 SAT			
503	BAN GB-E SPHEROS 20			
503	BAN GB-E SPHEROS 20			
503	BAN -GB-E SPHEROS 20 SAT			
503	BAN -GB-E SPHEROS 20 SAT			
	Folder - MEHR ERLEBEN MIT SYSTEM			0
504	Hinweisblatt BERICHTIGUNG SPHEROS 20			A23
				A60
505		Indicating Sheet	240-31670	
505 505	Hinweisblatt SOFTWARE SPHEROS 20	_		Moa
505 505 505	Hinweisblatt SOFTWARE SPHEROS 20 Hinweisblatt SOFTWARE SPHEROS 20	Indicating Sheet	240-31670	M23 M60
504 505 505 505 505 570	Hinweisblatt SOFTWARE SPHEROS 20Hinweisblatt SOFTWARE SPHEROS 20Hinweisblatt SOFTWARE SPHEROS 20	Indicating Sheet	240-31670 240-31670	M23 M60
505 505 505 505 570	Hinweisblatt SOFTWARE SPHEROS 20Hinweisblatt SOFTWARE SPHEROS 20Hinweisblatt SOFTWARE SPHEROS 20	Indicating Sheet Indicating Sheet Indicating Sheet Indicating Sheet Indicating Sheet		
505 505 505 505 505 570	Hinweisblatt SOFTWARE SPHEROS 20	Indicating Sheet Indicating Sheet Indicating Sheet Indicating Sheet Indicating Sheet Indicating Sheet		
505 505 505 505 570	Hinweisblatt SOFTWARE SPHEROS 20	Indicating Sheet Indicating Sheet Indicating Sheet Indicating Sheet Indicating Sheet		
505 505 505 505 570 571 572	Hinweisblatt SOFTWARE SPHEROS 20	Indicating Sheet Indicating Sheet Indicating Sheet Indicating Sheet Indicating Sheet SET SUPPLEMENT		M60
505 505 505 505 570 571 572	Hinweisblatt SOFTWARE SPHEROS 20	Indicating Sheet Indicating Sheet Indicating Sheet Indicating Sheet Indicating Sheet SET SUPPLEMENT Angle		M60 A23
505 505 505 505 505 570 571 572	Hinweisblatt SOFTWARE SPHEROS 20	Indicating Sheet Indicating Sheet Indicating Sheet Indicating Sheet Indicating Sheet Indicating Sheet SET SUPPLEMENT Angle Angle		M60

63406.x23-60

Mimo 20

Spheros 20 63401.x23-60

Sphere	os 20		03401.823-00
-	Bestell-Bezeichnung	Description List Part N°.	Bestell-Nr. Var. Var.
	GERÄTEBEIPACK	SET SUPPLEMENT	
A0640	Mikrozelle 1 5V Alkali-Mangan	Accumulator	280-13411
U9111	IR-Fernbedienung CONTROL 150 TV arktis	Transmitter	263-87000.060
03111	VEDDACKIINGSMATERIAL	PACKING MATERIAL	
600	Schooltel SPHEBOS 20	Packing Case	245-88414.002
610	Vernackungsformteil SPHEROS 20	Cushion-Set	252-88591.050
630	Schutzstreifen 1200x800mm	Protective Packing	253-84666.001
J0701	Schutzstreifen 350x190mm (IR-G.)	Protective Packing	253-84666.004
00,01	KNÖDEE	BUTTONS	
320	Knopf kpl. SPHEROS 20	Button	682-88496.050
020	GEHÄUSETEILE	CABINET MOUNTING	
101	Filzstreifen	Felt Strip	414-25204
102	Klahestreifen für Rückwand	Foam Plastics Ledge	411-20926
103	Kahalalin selhstklehend	Cable Binding	530-25566
108	Noopropetanzteil 15x10x6 selbstklebend	Foam Plastics Ledge	411-22286.002 M23
108	Noonrenstanzteil 15x10x6 selbstklebend	Foam Plastics Ledge	411-22286.002 M60
110	Holter SPHEROS 20 SAT	Holder	602-88416.101
499	Abdockkanne	Cap	505-31060 A23
499	Abdackkanne	Cap	505-31060 M23
499 G105	Tigobfuß SPHEROS 20	Stand	484-88409.001
G105	Bückwand platin SPHEBOS 20	Backcover	775-88413.009 A23
G110	Rückwand platin SPHEROS 20	Backcover	775-88413.009 A60
GIIO	CCHĂUSETEU E	CABINET MOUNTING	
G110	Büglayand hasalt-hall SPHEROS 20	Backcover	775-88413.015 M23
G110	Bückwand basalt-hal, SPHEROS 20	Backcover	775-88413.015 M60
G112	Filestraifon O EvEv340mm	Felt Strip	414-28825
	Abdockung Rückwand platin SPHEROS 20	Mask	
G112 G112	Abdookung Bückwand platin SPHEBOS 20	Mask	703-88406.009 A60
	Abdockung Bückwand basalt-hol, SPHEROS20	Mask	703-88406.015 M23
G112	Abdeckung Rückwand basalt-hgl, SPHEROS20	Mask	
G112	Frontscheibe SPHEROS 20	Window	666-88415.001 A23
G120	Frontscheihe SPHEROS 20	Window	
G120	Frontscheibe SPHEBOS 20 grau	Window	666-88415.002 M23
G120	Frantashaiba SPHEROS 20 grau	Window	666-88415.002 M60
G120	Ziergitter kpl. platin SPHEROS 20	Speaker Grille	708-88417.109 A23
G350	Zigraitter kol. platin SPHEROS 20	Speaker Grille	708-88417.109 A60
G350	Zigraitter kal, hasalt-matt SPHEROS 20	Speaker Grille	708-88417.115 M23
G350	Ziergitter kpl. basalt-matt SPHEROS 20	Speaker Grille	708-88417.115 M60
G350	SPULEN/LAUTSPRECHER	COILS, SPEAKERS	
200	Lautsprecher 8 Ohm 10W	Loudspeaker	272-84489
800	SPEZIALTEILE	SPECIAL PARTS	
00001	00 7-II		549-90418.903
G0001	. 6.11-1	Set of Lamps	383-90418.934
G0002 L0001		Ferrite Core	522-90422.995

Xelos 20 63448.x23-70

os.Nr. tem N°.	Bestell-Bezeichnung	Description List Part N°.	Bestell-Nr. Va Var.
	BAUGRUPPEN	UNITS	, , , , , , , , , , , , , , , , , , , ,
J0001	Inverter-A Unit	Inverter-A Unit	396-90416.902
J0002	Inverter-B Unit		
10003	Main Unit L3010 20 Zoll		
J0004	LCD-Display 20 Zoll / A4LC20B2L		
115	Netzteiladapter LCD 20	· ·	
120	Frontend LCD Display SPHEROS/XELOS kpl		
120	Frontend LCD Display SPHEROS 20 SAT kpl		
300	Bedienteil LCD 15/20 kpl.		
J120	Frontend LCD Display SPHE/XEL/MIM 20 kpl		
3120	DRUCKSACHEN	OPERATING INSTRUCTIONS	
500	BAN -D-I SPHEROS 20		233-30925 A6
500	BAN -D-I MIMO 15/SPHEROS 20/XELOS SL20		
	BAN -D-I MIMO 15/SPHEROS20/XELOS SL20 SAT	, •	
500	BAN NL-F SPHEROS 20		
502			
502	BAN -NL-F MIMO 15/SPHEROS 20/XELOS SL20		
502	BAN -NL-F MIMO15/SPHEROS20/XELOS SL20 S		
503	BAN GB-E SPHEROS 20		
503	BAN -GB-E MIMO 15/SPHEROS 20/XELOS SL20		
503	BAN -GB-E MIMO15/SPHEROS20/XELOS SL20 S		
505	Hinweisblatt Tischfuß MIMO 15 / XELOS20	-	
505	Hinweisblatt Tischfuß MIMO 15 / XELOS20		
506	Hinweisblatt SOFTWARE SPHEROS20/XELOS20	<del>-</del>	
570	Garantie- und Service-Card Version A		
571	LOEWE Marketing-Card	Indicating Sheet	240-31294
572	Rückumschlag Marketing-Card	Indicating Sheet	240-31298
	GERÄTEBEIPACK	SET SUPPLEMENT	
123	Quick-F-Winkeladapter	Angle	592-31324 A2
499	Adapterstecker für Antennenltg	Plug	321-25019 A6
499	Adapterstecker für Antennenltg	Plug	321-25019 A7
A0640	Mikrozelle 1,5V Alkali-Mangan	Accumulator	280-13411
U9111	IR-Fernbedienung CONTROL 150 TV arktis	Transmitter	263-87000.060
	VERPACKUNGSMATERIAL	PACKING MATERIAL	
600	Schachtel XELOS SL 20	Packing Case	245-88414.003
610	Verpackungsformteil XELOS SL 20	Cushion-Set	252-88591.051
630	Schutzstreifen 1200x800mm	Protective Packing	253-84666.001
J0701	Schutzstreifen 350x190mm (IR-G.)	<del>-</del>	
	KNÖPFE	BUTTONS	
320	Knopf kpl. SPHEROS 20 / XELOS SL 20		682-88496 050
320	GEHÄUSETEILE	CABINET MOUNTING	002-00430.000
101	Filzstreifen		414.05004
101	Klebestreifen für Rückwand		
	Kabelclip selbstklebend		
103		_	
104	Klettband Haken selbstklebend 325mm	•	
110	Halter XELOS SL 20		
113	Träger XELOS SL 20	• •	
114	Klemmbuchse für Abdeckung		
499	Abdeckkappe	•	
801	EJOT-PT-Schraube KL40x8		
G104	Frontblende XELOS SL 20		
G105	Tischfuß platin MIMO 15/XELOS SL 20		
G105	Tischfuß platin MIMO 15/XELOS SL 20	Stand	484-88823.009 A6
G110	Rückwand platin SPHEROS 20/XELOS SL 20	Backcover	775-88413.009
G112	Abdeckung Rückwand platin SPHEROS/XELOS	Mask	703-88406.009
G112			

Xelos 20 63448.x23-70

Pos.Nr. Item N°	Bestell-Bezeichnung	Description List Part N°.	Bestell-Nr. Var. Var.
	SPEZIALTEILE	SPECIAL PARTS	
G0001	Plastic-Bahmen 20 Zoll	Plastic-Frame 20 Zoll	549-90418.903
G0002		Set of Lamps	
1.0001	Ferritkern	Ferrite Core	522-90422.995

Fronte	end LCD Display		88492.053/054
	Bestell-Bezeichnung	Description List Part N°.	Bestell-Nr. Var. Var.
	BAUGRUPPEN	UNITS	
U1002	Tuner-ZF01 MR kpl	P.C.B	
	INTEGR. SCHALTUNGEN	INTEGRATED CIRCUITS	
10	ICMOS M27C4001 FDIP32	Integrated Circuit	
10	LA4635A SIP12H 2-CH-Audio Amp	Integrated Circuit	349-30742
11301	ST92R195 QFP80 28844S	Integrated Circuit	350-28844
11311	ICMOS 74 HCT125 SMD	Integrated Circuit	350-15523
11371	ICMOS 4,50V 20MA SO08 RESET-IC	Integrated Circuit	350-28570
11386	ICMOS M27C4001 L3010T V1.2	Integrated Circuit	
11391	ICMOS W24100# SOP-32 70N SRAM		
11396	ICMOS 74V1T00S SOT-23-5L NAND		
11397	ICMOS 24C64 DIP-8 EEPROM 64KB I2C		
11401	TEA5114A		
11414	TEA5114A		
11501	ICMOS MSP3451 QFP80 Audio	Integrated Circuit	350-29235
11561	MC33078 SO8	Integrated Circuit	350-28702
11571	LA4635A SIP12H 2-CH-Audio Amp	Integrated Circuit	
11601	Volt. Regulator TO252 10V OA5	Integrated Circuit	350-29007
11681	Volt. Regulator TO252 5V OA5	Integrated Circuit	350-29006
1100	BUCHSEN/FASSUNGEN	SOCKETS	
H1386	IC-Fassung 32-pol	Socket	320-22087
H1397	IC-Fassung 8-pol	Socket	320-80503
W1264	Cinchbuchsenleiste 3-fach gelb/weiß/rot	Socket	323-30840
<b>41</b> 1201	RUCHSEN/FASSUNGEN	SOCKETS	
W1272	Konfhörerbuchse 3,5mm horiz	Socket	323-24591
W1274	Mini-DIN-Buchse 4-pol	Socket	323-18108
W1451	SCART-Buchse SPHEROS 20	Socket	323-30778
W1656	Cinchbuchsenleiste 2-fach rot/weiß	Socket	323-30835
W1681	Einbaubuchse 10-pol. quadrat	Socket	323-28932
VV 1001	QUARZE/Filter	QUARTZES	
X1303	Quarz 4,000000 MHz HC49U	Crystal Oscillator	385-17297 054
X1506	Quarz 18,432000 MHz HC49U	Crystal Oscillator	385-25502
X1300	SICHERUNGEN	FUSES	
F1577	1250mA T 250V 8x8	Fuse	380-17123.020
F1681	315mA T 250V 8x8	Fuse	380-10558.020
F1686	1600mA T 250V 8x8	Fuse	380-16913.020
F1000	SMD TEILE	SMD PARTS	
D1067	DIOZD 12V0 J 0W5 SOD-80 ZMM12		351-17532
D1267	DIOZD 12V0 J 0W5 SOD-80 ZMM12	Diode	351-17532
D1272	DIOZD 12V0 J 0W5 SOD-80 ZMM12	Diode	351-17532
D1274	DIOZD 5V6 J 0W5 SOD-80 ZMM5.6	Diode	351-16758
D1332	0,2A 75V SOD80 LL4148	Diode	351-15015
D1364	DIOZD 5V6 J 0W5 SOD-80 ZMM5.6	Diode	351-16758
D1397	DIOZD 5V6 J 0W5 SOD-80 ZMM5.6	Diode	351-16758
D1427	DIOZD 12V0 J 0W5 SOD-80 ZMM12	Diode	351-17532
D1451	DIOZD 12V0 J 0W5 SOD-80 ZMM12	Diode	351-17532
D1453	DIOZD 12V0 J 0W5 SOD-80 ZMM12		

Pos.Nr. Item N°.	Bestell-Bezeichnung	Description List Part N°.	Bestell-Nr. Var. Var.
	SMD TEILE	SMD PARTS	
D1458	DIOZD 12V0 J 0W5 SOD-80 ZMM12	Diode	351-17532
D1459	DIOZD 12V0 J 0W5 SOD-80 ZMM12	Diode	351-17532
D1471	DIOZD 5V6 J 0W5 SOD-80 ZMM5.6	Diode	351-16758
D1472	DIOZD 5V6 J 0W5 SOD-80 ZMM5.6	Diode	351-16758
D1576	BAS316 SOD323	Diode	351-27952
D1577	DIOZD 6V2 J 0W5 SOD-80 ZMM6.2	Diode	351-17534
D1578	BAS316 SOD323	Diode	351-27952
D1646	DIOZD 12V0 J 0W5 SOD-80 ZMM12	Diode	351-17532
D1653	BAS316 SOD323	Diode	351-27952
D1666	DIOZD 12V0 J 0W5 SOD-80 ZMM12	Diode	351-17532
D1673	BAS316 SOD323	Diode	
D1701	BAS316 SOD323	Diode	
D1702	BAS316 SOD323		
D1703	BAS316 SOD323		
D1704	BAS316 SOD323		
D1706	BAS316 SOD323	Diode	
D1707	BAS316 SOD323		
D1708	BAS316 SOD323		
D1709	BAS316 SOD323		
D1711	BAS316 SOD323		
D1712	BAS316 SOD323		
D1741	BAS316 SOD323		
D1742	BAS316 SOD323		
D1742	BAS316 SOD323		
D1744	BAS316 SOD323		
D1744	BAS316 SOD323		
D1740	BAS316 SOD323		
D1747	BAS316 SOD323		
D1748 D1749	BAS316 SOD323		
D1749 D1751	BAS316 SOD323		
D1751	BAS316 SOD323		
	DIGITAL SOT323 NPN 50V 70mA 47K+		
Q1323	DIGITAL SOT323 NPN 50V 70mA 47K+		
Q1326			
Q1332	BC847BW SOT323		
Q1354	BC847BW SOT323		
Q1362	BC847BW SOT323		
Q1364	BC847BW SOT323		
Q1423	BC847BW SOT323		
Q1426	BF 840 SMD		
Q1427	BF550 SOT23		
Q1432	BC847BW SOT323		
Q1462	BC857BW SOT323		
Q1463	BC847B SOT23		
Q1466	BC857B SOT23		
Q1471	BC847BW SOT323		
Q1472	BC847BW SOT323	Transistor	344-27272
Q1531	BFR93AW SOT323 +		
Q1566	BC847BW SOT323		
Q1567	BC847BW SOT323		
Q1576	BC847BW SOT323	Transistor	344-27272
Q1602	BC857BW SOT323	Transistor	344-28404
Q1606	BC847BW SOT323	Transistor	344-27272
Q1609	BC857BW SOT323	Transistor	344-28404
Q1613	BC847BW SOT323	Transistor	344-27272
Q1614	BC857BW SOT323		

88492.053/054

Front	tend	LCD	Disp	lay
-------	------	-----	------	-----

Lionic	ild LOD Diopidy			
Pos.Nr. Item N°.	Bestell-Bezeichnung	Description List Part N°.	Bestell-Nr. Var.	Var.
	SMD TEILE	SMD PARTS		
Q1622	BC857BW SOT323	Transistor	344-28404	
Q1626	BC847BW SOT323	Transistor	344-27272	
Q1629	BC857BW SOT323	Transistor	344-28404	
Q1633	BC847BW SOT323	Transistor	344-27272	
Q1639	BC847B SOT23	Transistor	344-14974	
Q1642	BC857BW SOT323	Transistor	344-28404	
Q1646	BC847BW SOT323	Transistor	344-27272	
Q1652	BC847BW SOT323	Transistor	344-27272	
Q1653	BC857BW SOT323	Transistor	344-28404	054
Q1662	BC857BW SOT323	Transistor	344-28404	
Q1666	BC847BW SOT323	Transistor	344-27272	
Q1672	BC847BW SOT323	Transistor	344-27272	
Q1678	BC847BW SOT323	Transistor	344-27272	
Q1681	BCX69-25	Transistor	344-24714	
Q1686	BC847BW SOT323	Transistor	344-27272	
Q1000 Q1702	UPA606T SC-59 2-N-CH MOSFET			<b>0</b> 54
Q1702 Q1704	UPA606T SC-59 2-N-CH MOSFET			054
Q1704 Q1706	UPA606T SC-59 2-N-CH MOSFET			054
	UPA606T SC-59 2-N-CH MOSFET			
Q1708	UPA606T SC-59 2-N-CH MOSFET			
Q1711	OFACOUT SO-50 2-14-OFF MOOF ET			

## Frontend ASV Spheros 20 SAT

Art.-Nr. 88621.051/052

Pos.Nr. ItemN°.	Bestell-Bezeichnung	Description	Bestell-Nr. Vai List Part N°. Vai
	BAUGRUPPEN	UNITS	
J1801	SAT-Tuner SF1238/SH	Tuner	260-31033
	INTEGR. SCHALTUNGEN	INTEGRATED CIRCUITS	
10	LA4635A SIP12H 2-CH-AUDIO AMP		
1301	ST92R195 QFP80 28844S	Integrated Circuit	350-28844
1311	ICMOS 74 HCT125 SMD	Integrated Circuit	350-15523
1371	ICMOS 4,50V 20mA SO08 RESET-IC	Integrated Circuit	350-28570
1386	ICMOS M27C4001 FDIP32		
1391	ICMOS W24100# SOP-32 70N SRAM	Integrated Circuit	350-30807
1396	ICMOS 74V1T00S SOT-23-5L NAND	Integrated Circuit	350-28563
1397	ICMOS 24C64 DIP-8 EEPROM 64KB I2C	Integrated Circuit	349-28114
1401	TEA5114A	Integrated Circuit	349-15212
1414	TEA5114A	Integrated Circuit	349-15212
1501	ICMOS MSP3451 QFP80 AUDIO	Integrated Circuit	350-29235
1561	MC33078 SO8	Integrated Circuit	350-28702
1571	LA4635A SIP12H 2-CH-AUDIO AMP	Integrated Circuit	349-30742.Y20
11601	Volt. Regulator TO252 10V OA5	Integrated Circuit	350-29007
11681	Volt. Regulator TO252 5V OA5	Integrated Circuit	350-29006
11807	IC-VR LNBP21PD PSO-20	Integrated Circuit	350-30918
1821	TDA6151 SO20	Integrated Circuit	350-23124
11891	LM 2903D SO08	Integrated Circuit	350-21674
	BUCHSEN/FASSUNGEN	SOCKETS	
H1386	IC-Fassung 32-pol	Socket	320-22087
H1397	IC-Fassung 8-pol	Socket	320-80503
W1264	Cinchbuchsenleiste 3-fach gelb/weiß/rot	Socket	323-30840
W1272	Kopfhörerbuchse 3,5mm horiz	Socket	323-24591
W1274	Mini-DIN-Buchse 4-pol		
W1451	SCART-Buchse SPHEROS 20		
W1656	Cinchbuchsenleiste 2-fach rot/weiß		
W1681	Einbaubuchse 10-pol. quadrat	Socket	323-28932

Pos.Nr. ItemN°.	Bestell-Bezeichnung	Description	Bestell-Nr. Var. List Part N°. Var.
	QUARZE/FILTER	QUARTZES	
10	Quarz 4,000000 MHz HC49U	Crystal Oscillator	385-17297
X1303	Quarz 4,000000 MHz HC49U	Crystal Oscillator	385-17297.Y06
X1506	Quarz 18,432000 MHz HC49U	Crystal Oscillator	385-25502
	SICHERUNGEN	FUSES	
F1577	1250mA T 250V 8x8	Fuse	
F1681	315MA T 250V 8x8	Fuse	
F1686	1600mA T 250V 8x8		
F1873	1250mA T 250V 8x8		
	WIDERSTÄNDE	RESISTORS	
10	0R1 K 0W25 0207 WIDSI	Resistor	366-10905
R1805	1R J 0207		
R1806	0R1 K 0207 WIDSI		
111000	SMD TEILE	SMD PARTS	
D1267	DIOZD 12V0 J 0W5 SOD-80 ZMM12		351-17532
D1272	DIOZD 12V0 J 0W5 SOD-80 ZMM12		
D1274	DIOZD 12V0 J 0W5 SOD-80 ZMM12		
D1332	DIOZD 5V6 J 0W5 SOD-80 ZMM5.6		
	BAS316 SOD323		
D1364			
D1397	DIOZD 5V6 G 0W5 SOD-80 ZMM5.6		
D1427	DIOZD 5V6 G 0W5 SOD-80 ZMM5.6		
D1451	DIOZD 12V0 J 0W5 SOD-80 ZMM12		
D1453	DIOZD 12V0 J 0W5 SOD-80 ZMM12		
D1454	DIOZD 12V0 J 0W5 SOD-80 ZMM12		
D1458	DIOZD 12V0 J 0W5 SOD-80 ZMM12		
D1459	DIOZD 12V0 J 0W5 SOD-80 ZMM12		
D1471	DIOZD 5V6 G 0W5 SOD-80 ZMM5.6		
D1472	DIOZD 5V6 G 0W5 SOD-80 ZMM5.6	Diode	351-22580
D1576	BAS316 SOD323	Diode	351-27952
D1577	DIOZD 6V2 J 0W5 SOD-80 ZMM6.2	Diode	351-17534
D1578	BAS316 SOD323	Diode	351-27952
D1646	DIOZD 12V0 J 0W5 SOD-80 ZMM12	Diode	351-17532
D1653	BAS316 SOD323	Diode	351-27952
D1666	DIOZD 12V0 J 0W5 SOD-80 ZMM12	Diode	351-17532
D1673	BAS316 SOD323		
D1701	BAS316 SOD323		
D1702	BAS316 SOD323		
D1702	BAS316 SOD323		
	BAS316 SOD323		
D1704	BAS316 SOD323		
D1706			
D1707	BAS316 SOD323		
D1708	BAS316 SOD323		
D1709	BAS316 SOD323		
D1711	BAS316 SOD323		
D1712	BAS316 SOD323		
D1741	BAS316 SOD323	Diode	351-27952 052
D1742	BAS316 SOD323	Diode	351-27952 052
D1743	BAS316 SOD323	Diode	
D1744	BAS316 SOD323	Diode	
D1746	BAS316 SOD323	Diode	
D1747	BAS316 SOD323	Diode	351-27952 052
D1748	BAS316 SOD323		
D1749	BAS316 SOD323		
D1751	BAS316 SOD323		
D1751	BAS316 SOD323	•	
D1732	TMMBAT43 MINIMELF Schottky		
U1001	FIRST TO WISHING OUTOURY		

# Frontend ASV Spheros 20 SAT

Frontend ASV Spheros 20 SA I				
Pos.Nr. ItemN°.	Bestell-Bezeichnung	Description	Bestell-Nr. List Part N°.	Var. Var.
	SMD TEILE	SMD PARTS		
D1803		Diode		
D1896		Diode		
11809		Transistor		
Q1323		Transistor		
Q1326		Transistor		
Q1332		Transistor		
Q1354		Transistor		
Q1362	BC847BW SOT323	Transistor	344-27272	
Q1364	BC847BW SOT323	Transistor	344-27272	
Q1426	BF 840 SMD	Transistor	344-28018	
Q1427	BF550 SOT23	Transistor	344-23563	
Q1432	BC847BW SOT323	Transistor	344-27272	
Q1462	BC857BW SOT323	Transistor	344-28404	
Q1463	BC847B SOT23	Transistor	344-14974	
Q1466		Transistor		
Q1471		Transistor		
Q1472		Transistor		
Q1566		Transistor		
Q1567		Transistor		
Q1576		Transistor		
Q1602		Transistor		
Q1606		Transistor		
Q1609		Transistor		
Q1613		Transistor		
Q1614		Transistor		
Q1622		Transistor		
Q1622		Transistor		
		Transistor		
Q1629		Transistor		
Q1633		Transistor		
Q1639		Transistor		
Q1642		Transistor		
Q1646 Q1652		Transistor		
		Transistor		
Q1653		Transistor		
Q1662		Transistor		
Q1666		Transistor		
Q1672		Transistor		
Q1678		Transistor		
Q1681		Transistor		
Q1686		Transistor		052
Q1702		Transistor		052
Q1704		Transistor		052
Q1706				
Q1708		Transistor		
Q1711		Transistor		
Q1822		Transistor		
Q1827		Transistor		
Q1831		Transistor		
Q1833		Transistor		
Q1837		Transistor		
Q1846		Transistor		
Q1852				
01873		Transistor		
Q1874		Transistor		
Q1882		Transistor		
Q1888	BC847BW SO1323	ITAIISISTOF	344-2/2/2	

#### IR-Fernbedienung • IR remote control Art.-Nr. 87000.060 Bestell-Bezeichnung Description Bestell-Nr. Pos.Nr. List Part N°. Item N° Var. SPARE PARTS FOR TRANSMITTER **GEBER-ERSATZTEILE** 20 20 25 Kontaktmatte Control 150 Spring Contact 309-87267001 30 060 70 060 80 90 060 D105 D117 060 060 D118 060 D121 060 1101 060 Q121 060 X111

## Loewe-Vertragswerkstätten • Loewe establishments

Berlin VHF Steglitzer Damm 39 12169 Berlin Tel. 0 30 / 21 33 006 Fax 0 30 / 21 33 007

Fax 0 30 / 21 33 007 loewe.vertragskundendienst.berlin@arcor.de

Niedersachsen Hütsche & Stelter GbR Kastanienallee 2 21337 Lüneburg Tel. 041 31 / 85 58 83 Fax 041 31 / 85 58 84 videlse@compuserve.de

Hamburg Michael Hinz Audio-Video-TV-Service Antonie-Möbis-Weg 5 22523 Hamburg Tel. 0 40 / 57 08 030 Fax 0 40 / 57 08 017 Hinz@Hinz-GmbH.de

Niedersachsen Wolfgang Schütte GmbH TV-HiFi-Meisterwerkstatt Bernhardstr. 36 26122 Oldenburg Tel. 04 41 / 50 20 35 Fax 04 41 / 50 84 87 Service-Center@t-online.de

Niedersachsen DW-Service GmbH Haltenhoffstraße 52-54 30167 Hannover Tel. 05 11 / 714 073 Fax 05 11 / 700 09 97 Doering@DW-Service.com

Nordrhein-Westfalen TSW-Techn. Service Wenzel Klingenbergerstraße 38-40 32756 Detmold Tel. 052 31 / 39 513 Fax 052 31 / 39 613 mail@TSW-online.de

Nordrhein-Westfalen Jürgen Wolber Electronic - Service Weißenburgerstraße 52 40476 Düsseldorf Tel. 02 11 / 443 456 Fax 02 11 / 464 433 Wolber@arcormail.de

Nordrhein-Westfalen HVS Lösbar GmbH Hauert 16 4427 **Dortmund** Tel. 02 31 / 97 53 333 Fax 02 31 / 97 53 33 50 info@Loesbar.de

Nordrhein-Westfalen SSC Kirchhoff GmbH Am Förderturm 9 44575 Castrop-Rauxel Tel. 023 05 / 97 740 Fax 023 05 / 97 74 99 info@SSC-kirchhoff.de

Nordrhein-Westfalen Elektronik-Service Wenzel Mielenforsterstraße 2 51069 Köln Tel. 02 21 / 68 01 585 Fax 02 21 / 68 01 588 ESW-Elektronik@t-online.de

Rheinland-Pfalz Hans Krempl / Haustechnik GmbH August-Horch-Straße 14 56070 Koblenz Tel. 02 61 / 89 09-0 Fax 02 61 / 83 074 Rainer.Hartenfels@Krempl.de Rheinland-Pfalz L. Weisenstein GmbH Ludwig Strauss Straße 1 67098 Bad Dürkheim Tel. 063 22 / 95 080 Fax 063 22 / 95 08 19 HaraldMeyerService@t-online.de

Hessen Fernseh-Kessler Veckerhagener Straße 58 34233 Fuldatai Tel. 05 61 / 81 30 03 Fax 05 61 / 81 91 85 info@Fernseh-Kessler.de

Hessen Schwalbe GmbH Max-Planck-Str. 20 63303 Dreieich Tel.(0 61 03) 39 99 80 Tel.(0 61 03) 39 99 79 Schwalbe-@t-online.de

Hessen VAD Video- und Audio-Dienst Ostring 7 65205 Wiesbaden-Nordenstadt Tel. 061 22 / 90 91 80 Fax 061 22 / 90 91 50 Loewe@Hemmerling-Service.de

Baden-Württemberg AV-Technik Wagner Zerweck GmbH Hofener Straße 140a 70374 Stuttgart Tel. 071 11 / 78 00 423 Fax 071 11 / 78 00 426 07117800423-0001@t-online.de

Baden-Württemberg Pavlek Service-Center Rilkestraße 5 71229 Leonberg Tel. 071 52 / 90 51 16+17 Fax 071 52 / 90 51 18 Loewe@Pavlek.de

Baden-Württemberg Autronic Electronic-Service GmbH Greschbachstraße 29 76229 Karlsruhe Tel. 07 21 / 62 99 132 Fax 07 21 / 62 99 195 emanuel.werner@autronic-service.de

Bayern
Jürgen Drössler Fernseh-Video-Service
Lerchenstraße 8
80995 München
Tel. 0 89 / 35 71 68 31
Fax 0 89 / 35 71 68 38
JuergenDroessler@freenet.de

**Bayern**Norbert Nickl
Kupernikusstr. 21/23
90459 **Nürnberg**Tel. 09 11 / 44 66 460
Fax 09 11 / 44 66 414

Mecklenburg-Vorpommern TV-Hifi-Video-SAT-Elektronik Inh. Wolfgang Schubert Lange Reihe 38b 17121 Loitz Tel. 03 99 98 / 10 577 Fax 03 99 98 / 10 566 TV\_Schubert@t-online.de

Mecklenburg-Vorpommern Wilhelm Meissner GmbH Dorfstraße 1 18107 Lichtenhagen-Dorf Tel. 03 81 / 76 000 62 Fax 03 81 / 76 000 63 Service@EP-Meissner.com Mecklenburg-Vorpommern Service-Center Baumeister Neue Reihe 14 18190 Sanitz Tel. 03 82 09 / 81 950 Fax 03 82 09 / 81 951 SCB@SCBaumeister.de

Mecklenburg-Vorpommern Elektro Blitz Gmbh & Co.KG Lessingstraße 31 19059 Schwerin Tel. 03 85 / 75 82 08-0 Fax 03 85 / 75 82 08 50 Service@EP-Elektro-Blitz.de

Brandenburg Wolfgang Ihlefeldt Berliner Str. 8 14532 Güterfelde Tel. 033 29 / 62 192 Fax 033 29 / 62 296 Wihlefeldt@t-online.de

Sachsen-Anhalt Schwanbeck & Gall GmbH Weißenfelser Straße 1 06712 Zeitz Tel. 034 41 / 86 210 Fax 034 41 / 86 211 Schwanbeck-Gall@t-online.de

Sachsen-Anhalt Service-Partner Völkel Carnotstraße 27 39120 Magdeburg Tel. 03 91 / 62 87 777 Fax 03 91 / 62 87 779 SPVoelkel@debitel.net

Sachsen SMV Elektronik Service GmbH Hofmühlenstraße 25 01239 **Dresden** Tel. 03 51 / 28 16 016 Fax 03 51 / 28 16 017 SMV-dd@t-online.de

Sachsen
Ing. Günter Schröter
Zielona-Gora-Str. 21
03050 Cottbus
Tel. 03 55 / 52 30 28
Fax 03 55 / 54 22 06
GS.Elektronik-Service@t-online.de

Sachsen HVS Lösbar GmbH Landsberger Straße 23 04157 **Leipzig** Tel. 03 41 / 91 26 070 Fax 03 41 / 91 26 071 Leipzig@loesbar.de

Sachsen
Semmler GmbH
Schulstraße 36
09337 Hohenstein-Ernstthal
Tel. 037 23 / 65 200
Fax 037 23 / 65 20 28
Semmler-multimedia@t-online.de

Thüringen Gärtner-Elektronik-GmbH & Co.KG Saalbahnhofstraße 21 07743 Jena Tel. 036 41 / 40 840 Fax 036 41 / 40 84 29 0364140840@t-online.de

Thüringen Audio-Video-Elektrik-Service GmbH Lange Brücke 35 99084 Erfurt Tel. 03 61 / 56 26 285 Fax 03 61 / 64 30 871 au-vi-el-erfurt@t-online.de

## Loewe-Service und Logistik

LOEWE OPTA GmbH Service + Logistik Zentrale Kronach 96305 Kronach • Postfach 1554 96317 Kronach • Industriestraße 11

Die wichtigsten Rufnummern der Zentrale Kronach: The most important phone numbers of the Kronach headquarters FAX Telefon: Ersatzteilbestellungen: (0180) 522 1800 : (0180) 522 1806 Status von Reparaturen: (01 80) 522 1805 (0 92 61) 99 412 Support Farbfernsehen: (0180) 522 1801 (0.92 61) 99 730 Support Video/Camcorder (01 80) 522 1802 (0 92 61) 99 730 Support Telefone/Telekom. (01 80) 522 1803 (0 92 61) 99 730 (0 92 61) 99 730 (0180) 522 1804 Support HiFi: Support Home MultiMedia (0180) 522 1807 (0 92 61) 99 730

Hinweis! Ersatzteilbestellung nur über Service + Logistik / Zentrale 96317 Kronach Note! Spare parts orders only through Service + Logistics / Headquarters in Kronach

## **Loewe Service** Übersee • Overseas

#### Australien

International Dynamics Australasia PTÝ LTD Australasia PTY LTD
129 Palmer Street
AUS -Richmond 3121, Victoria
Tel. 00 61 / 3 - 94 29 08 22
Fax 00 61 / 3 - 94 29 08 33
aencel@internationaldynamics.com.au
ekyriakides@internationaldynamics.com.au
mthorntonsmith@internationaldynamics.com.au

## Französisch Polynesien

Sonexport P.O. Box 2334 Avenue Prince Hinoi 98713 Papeete - Tahiti French Polynesia Tel. 00 689 / 50 66 50 Fax 00 689 / 50 66 55 sonex@mail.pf mynam.tracqui@mai.pf

Hong Kong Audio Supplies Company 5/F., St George's Building 2 Ice House Street cental, Hong Kong Tel. 00 852 / 25 24 - 93 77 Fax 00 852 / 28 10 - 04 06 akung@audiosupplies.com.hk

### Indien

**BPL Limited** 17th KM, Old Madras Road Avalahalli IND - **Bangalore** 560 049 Tel. 00 91 / 80 84 72 966 Fax 00 91 / 80 84 72 242 alok.sen@hotmail.com

#### Israel RIF LTD

29, Izhak Sade Street IRS - Tel Aviv 67213 Tel. 00 972 / 3 62 40 555 Fax 00 972 / 3 62 40 303 loewe@bezegint.net

Evolution Audio Video Inc. 250 The Espla nade Suite 302 **Toronto**, Ontario M5A 1J2 Tel. 00 1 / 416-603-9090 Fax 00 1 / 416-603-9083 rbdobson@sympatico.ca

### Korea

CIS Corporation 3rd Fl. Jijin Bldg. 80-3 Cheongdam-Dong Kangnam-Ku, 135-100 Seoul, Korea Tel. 02 3446 35 11 Fax 02 3446 35 15 hjkim@csico.co.kr

### Kuwait

Naser Mohd. Al-Sayer Electronics Co W.L.L. P.O. Box 522 KTW - **Safat** 13006 Tel. 00 9 65 / 4 73 73 99 Fax 00 9 65 / 4 72 08 62

### Libanon

Obergi Audiovise S.A.L. Dora high-way, sea side Obegi Bldg. B.P. 11-2652 RL - **Beyrouth** Tel. 00 9 61 / 1 90 07 71 Fax 00 9 61 / 1 90 07 74 obegi.audiovise@tmi.com.lb

### Saudi Arabien

Salem Agenscies & Services Co. P.O. Box 9720 SA - **Jeddah** 21413 Tel. 00 9 66 / 2 - 6 65 46 16 Fax 00 9 66 / 2 6 60 78 64

Singapur Atlas Hi-Fi PTE LTD # 03-19/21 Plaza Singapura 68 Orchard Road Singapore 238839 Tel. (65) 339 0966 Fax (65) 336 4678 miketien@atlas-hifi.com

### Südafrika

The Soundlab (PTY) LTD P.O. Box 757 Parklands 2121 Republik of South Africa Tel. 0027 / 11 - 447 65 75 Fax 0027 / 11 - 447 66 62 loewe@mad.co.za

Vereinigte Staaten Loewe Opta, Inc. 10 Cordage Park Circle Suite No. 213 Plymouth, Mass. 02360 Tel. 001-508 / 830 0025 Fax 001-508 / 830 9414 ksullivan@loeweus.com ofredrickson@loeweus.com thoefer@loeweus.com ibrosnan@loeweus.com www.loewe.us.com

**Zypern**L & M Eu Eurappliances LTD
Kennedy Avenue 1 A & B
P. O. Box 23426 CY - Nicosia CY - NICOSIA
Tel. 00 3 57 / 22 - 42 05 10
Fax 00 3 57 / 22 - 42 87 70
eurappliances@spidernet.com.cy
liveras@spidernet.com.cy

